City of Chance Rapids, Michigan

Water **Final**



January 8, 2014

TO:

Eric R. DeLong

Deputy City Manager

FROM:

Geri D. Eye, CPA

Utility Financial Officer

SUBJECT:

2013 WATER/SEWER RATE STUDY - FINAL REPORT

The final study, setting water and sewer rates effective January 1, 2014, for Grand Rapids and the retail and wholesale communities it serves, is submitted herein. A table of contents immediately precedes the report's sections and lists the respective tasks performed in reviewing the Water Supply System's and Sewage Disposal System's operating and financial performance. The annual study considers variations in customer base, usage, and operating and capital costs by community and calculates recommended commodity and service rates based upon adherence to: (a) the uniform rate-setting methodology established in 1976-77 for customer communities not party to the uniform water and sewer service agreements; and (b) rate methodology changes contractually agreed in the uniform water and sewer service agreements for Utility Advisory Board (UAB) member customer communities. The methodology yields consistent performance in providing for the long-term needs of the water and sewage systems and satisfying debt service coverage pursuant to the systems' master bond ordinance covenants.

This year's review marks the 36th annual water/sewer rate study report and resulted in a water rate decrease and a sewer rate increase as follows:

- 1. Water Supply System revenue requirements decreased \$1,735,395 or 4.30% less than revenue generated by existing rates and charges and now includes a revenue credit for the income earned on water tank rental to cellular and Internet service providers. Slightly lower operating costs, higher integrated connection fee revenues and other revenue credits, increased average billed volume, and a larger customer base all contributed to the favorable water rate change.
- 2. Sewage Disposal System revenue requirements increased \$1,177,402 or 2.46% more than revenue generated by existing rates and charges and properly excludes costs associated with the spring 2013 flood event expected to be reimbursed by FEMA. Slightly higher operating costs, lower surcharge revenues, and decreased billed volume contributed to the sewer rate increase.

The final rate study continues to incorporate provisions of the third amendment to the uniform service agreements with customer communities, which eliminates penalty fee credits from retail revenue requirements to fund the Individual Circuit Breaker (ICB) and the City and Customer Community Circuit Breaker (CCCCB). This amendment generated \$148,743 to support the ICB, the program aimed to assist retail customers requiring assistance in payment of their water/sewer bills, and represents a \$5,088 increase from the prior rate study. This amendment also generated sufficient funding to provide full water and sewer circuit breaker relief to Walker, Kentwood, Cascade, Grand Rapids Township, Tallmadge, and Wright under the CCCCB, a program intended to limit each retail service area's revenue requirement change to a level in line with the overall systems' average change.

Four schedules supplement and immediately follow this memo. The first schedule summarizes the revenue requirement changes by customer community. The second and third schedules show water and sewer rate adjustment impacts to typical domestic and commercial customers with the system average quarterly consumption in each retail community. They also include a comparison of the approximate monthly charge for Wright Township's residential equivalent unit (REU) rate structure. The final schedule shows comparative water and sewer monthly service and commodity rate adjustments for the City's wholesale customer communities.

Announcement of the proposed 2014 water and sewer rates to the UAB partners and other customer communities was made November 14, 2013, and the City Commission approved the customer community rates by resolution on December 17, 2013.

Public hearings for water and sewer rates and charges in Grand Rapids were held on December 3, 2013, and the City Commission approved final adoption of the water and sewer ordinance amendments on December 17, 2013.

Attachments

CITY OF GRAND RAPIDS, MICHIGAN 2013 FINAL WATER/SEWER RATE STUDY SUMMARY OF REVENUE REQUIREMENT CHANGES FOR RATES EFFECTIVE JANUARY 1, 2014 January 8, 2014

	WATER (1)		SEWER (1)		
		AMOUNT	PERCENT	 AMOUNT	PERCENT
GRAND RAPIDS	\$	(965,560)	-4.03%	\$ 738,617	2.25%
WALKER		(124,627)	-3.88%	108,859	2.36%
KENTWOOD		(227,165)	-5.29%	98,572	2.74%
CASCADE TWP		(118,885)	-3.88%	54,928	2.74%
GRAND RAPIDS TWP (2)		(96,174)	-4.42%	60,072	2.60%
TALLMADGE TWP		(5,055)	-3.88%	7,111	2.74%
WRIGHT TWP (2)		NA	NA	(3,231)	-1.31%
EAST GRAND RAPIDS		(55,853)	-6.16%	67,271	11.11%
ADA TWP		(92,563)	-7.32%	27,471	2.50%
OTTAWA COUNTY		(49,514)	-3.54%	NA	NA
GAINES TWP		NA	NA	4,532	3.12%
SYSTEM	\$	(1,735,395)	-4.30%	\$ 1,177,402	2.46%

⁽¹⁾ Change in revenue requirements based on revenues currently generated from rates, customer base and volumes reported in the preliminary rate study (Includes consideration for relief from CCCCB).

DISCLOSE RELIEF PROVIDED BY CITY & CUSTOMER COMMUNITY CIRCUIT BREAKER (CCCCB)

	WATE	R	SEWI	E R
	AMOUNT	PERCENT	AMOUNT	PERCENT
SYSTEM CHANGE- ABOVE	\$ (1,735,395)	-4.30%	\$ 1,177,402	2.46%
ADD: CCCCB RELIEF	168,143	0.42%	133,698	0.28%
SYSTEM CHANGE- WITHOUT RELIEF	\$ (1,567,252)	-3.88%	\$ 1,311,100	2.74%

⁽²⁾ Grand Rapids Twp contributed \$3,200 in 2013 Rate Study for 2014 sewer revenue requirements & rates. Wright Twp contributed \$10,000 in 2013 Rate Study for 2014 sewer revenue requirements & rates.

CITY OF GRAND RAPIDS, MICHIGAN 2013 FINAL WATER/SEWER RATE STUDY IMPACT OF RATE ADJUSTMENTS ON DOMESTIC USERS BY CUSTOMER COMMUNITY * January 8, 2014

	APPROXIMATE (QUARTERLY BILL	CHA	NGE
	2013	2014	DOLLARS	PERCENT
GRAND RAPIDS				
WATER	\$ 74.22	\$ 71.00	\$ (3.22)	-4.34%
SEWER	91.73	94.56	2.83	3.09%
	\$ 165.95	\$ 165.56	\$ (0.39)	-0.24%
BASE RATIO	1.00	1.00		
WALKER				
WATER	\$ 78.37	\$ 74.95	\$ (3.42)	-4.36%
SEWER	129.28	132.10	2.82	2.18%
	\$ 207.65	\$ 207.05	\$ (0.60)	-0.29%
RATIO TO GR	1.25	1.25	 	
KENTWOOD				
WATER	\$ 85.30	\$ 80.06	\$ (5.24)	-6.14%
SEWER	55.85	56.96	1.11	1.99%
	\$ 141.15	\$ 137.02	\$ (4.13)	-2.93%
RATIO TO GR	0.85	0.83		
CASCADE TWP				
WATER	\$ 115.14	\$ 110.02	\$ (5.12)	-4.45%
SEWER	131.05	134.21_	3.16	2.41%
	\$ 246.19	\$ 244.23	\$ (1.96)	-0.80%
RATIO TO GR	1.48	1.48		
GRAND RAPIDS TWP- Contribution	of \$5,600 for 2013, \$3,200 for	2014.		
WATER	\$ 91.25	\$ 86.97	\$ (4.28)	-4.69%
SEWER	116.46	119.28	2.82	2.42%
	\$ 207.71	\$ 206.25	\$ (1.46)	-0.70%
RATIO TO GR	1.25	1.25		
TALLMADGE TWP				
WATER	\$ 114.22	\$ 108.56	\$ (5.66)	-4.96%
SEWER	261.35_	268.08	6.73	2.58%
	\$ 375.57	\$ 376.64	\$ 1.07	0.28%
RATIO TO GR	2.26	2.27		

^{*} THE COMPARISONS ABOVE ARE BASED ON SYSTEM AVERAGE DOMESTIC CUSTOMER

QUARTERLY CONSUMPTION OF: WATER-

25.00 UNITS OR

18,700 GALLONS

SEWER -

16.00 UNITS OR

11,968 GALLONS

NO. OF MONTHS:

3

Note: The average water consumption depicted above reflects an increase of two (2) units from last year's rate study. Sewer reflects a decrease of two (2) units from last year's rate study. The average quarterly consumption for water and sewer last year was 23 and 18 units, respectively.

REU (RESIDENTIAL EQUIVALENT UNIT) CUSTOMER COMMUNITY- APPROXIMATE QUARTERLY BILL

WRIGHT TWP- Contribution of \$0 for 2013, \$10,000 for 2014.

SEWER (No. of REU 1.00)

\$ 185.64

\$ 183.21

\$ (2.43)

-1.31%

CITY OF GRAND RAPIDS, MICHIGAN 2013 FINAL WATER/SEWER RATE STUDY IMPACT OF RATE ADJUSTMENTS ON COMMERCIAL USERS BY CUSTOMER COMMUNITY * January 8, 2014

	APPROXIMATE O	QUARTERLY BILL	CHA	NGE
	2013	2014	DOLLARS	PERCENT
GRAND RAPIDS				
WATER	\$ 452.64	\$ 434.98	\$ (17.66)	-3.90%
SEWER	737.82	734.55	(3.27)	-0.44%
	\$ 1,190.46	\$ 1,169.53	\$ (20.93)	-1.76%
BASE RATIO	1.00	1.00		
WALKER				
WATER	\$ 434.03	\$ 417.86	\$ (16.17)	-3.73%
SEWER	690.30	706.65	16.35_	2.37%
	\$ 1,124.33	\$ 1,124.51	\$ 0.18	0.02%
RATIO TO GR	0.94	0.96		
KENTWOOD				
WATER	\$ 440.78	\$ 417.67	\$ (23.11)	-5.24%
SEWER	<u>491.91</u>	505.23	13.32	2.71%
	\$ 932.69	\$ 922.90	\$ (9.79)	-1.05%
RATIO TO GR	0.78	0.79		
CASCADE TWP				
WATER	\$ 597.75	\$ 574.85	\$ (22.90)	-3.83%
SEWER	672.03	690.78	18.75	2.79%
	\$ 1,269.78	\$ 1,265.63	\$ (4.15)	-0.33%
RATIO TO GR	1.07	1.08		
GRAND RAPIDS TWP- Contribution of \$5,	600 for 2013, \$3,200 for	2014.		
WATER	\$ 486.61	\$ 465.21	\$ (21.40)	-4.40%
SEWER	606.81	623.16	16.35	2.69%
	\$ 1,093.42	\$ 1,088.37	\$ (5.05)	-0.46%
RATIO TO GR	0.92	0.93		
TALLMADGE TWP				
WATER	\$ 876.29	\$ 841.30	\$ (34.99)	-3.99%
SEWER	2,287.47	2,350.05	62.58	2.74%
	\$ 3,163.76	\$ 3,191.35	\$ 27.59	0.87%
RATIO TO GR	2.66	2.73		
* THE COMPARISONS ABOVE ARE BAS	SED ON SYSTEM AVFRA	AGE COMMERCIAL CUST	TOMER	
			72,040 GALLONS	
	EWER - 207	7.00 UNITS OR 1	54,836 <i>GALLONS</i>	

NO. OF MONTHS: 3

REU (RESIDENTIAL EQUIVALENT UNIT) CUSTOMER COMMUNITY- APPROXIMATE QUARTERLY BILL

WRIGHT TWP- Contribution of \$0 for 2013, \$10,000 for 2014.

SEWER (No. of REU 1.00) <u>\$ 185.64</u> <u> \$ 183.21</u> <u>\$ (2</u>.43) -1.31%

CITY OF GRAND RAPIDS, MICHIGAN 2013 FINAL WATER/SEWER RATE STUDY IMPACT OF RATE ADJUSTMENTS ON WHOLESALE USERS January 8, 2014

	2013	2014	PERCENTAGE CHANGE
EAST GRAND RAPIDS			
WATER - SERVICE (MONTHLY)	\$ 15,702.00	\$ 14,091.00	-10.26%
- COMMODITY (100 CF)	1,18	1.12	-5.08%
SEWER - SERVICE (MONTHLY)	1,604.00	1,540.00	-3.99%
- COMMODITY (MG)	1,396.00	1,558.00	11.60%
ADA TWP			
WATER - SERVICE	\$ 34,722.00	\$ 29,726.00	-14.39%
- COMMODITY	1.30	1.25	-3.85%
SEWER - SERVICE	45,912.00	42,700.00	-7.00%
- COMMODITY	1,763.00	1,975.00	12.02%
OTTAWA COUNTY			
WATER - SERVICE	\$ 170.00	\$ -	-100.00%
- COMMODITY	1.26	1.22	-3.17%
GAINES TWP			
SEWER - SERVICE	\$ 1,574.00	\$ 1,333.00	-15.31%
- COMMODITY	1,310.00	1,387.00	5.88%

NOTE: Monthly defined as 1/12th of 365 days.

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND ANNUAL RATE REVIEW

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CITY OF GRAND RAPIDS, MICHIGAN FINAL CONSIDERATIONS ANNUAL WATER/SEWER RATE REVIEW

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CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND SYSTEM ADDITIONS AND IMPROVEMENTS FOR THE YEAR ENDED JUNE 30, 2013 TASKS NO. 1, 2, & 3

	LOC		INTERMEDIATE		PRIMA		TOTALS	
COMMUNITY	FEET	MILES	FEET	MILES	FEET	MILES	FEET	MILES
Grand Rapids								
Construction	14,006	2.65	11,761	2.23	80	0.02	25,847	4.90
Abandonment	(15,302)	(2.90)	(11,152)	(2.11)	(80)	(0.02)	(26,534)	(5.03)
CSO Construction	12,945	2.45	651	0.12	0	0.00	13,596	2.57
CSO Abandonment	(12,208)	(2.31)	0	0.00	0	0.00	(12,208)	(2.31)
	(559)	(0.11)	1,260	0.24	0	0.00	701	0.13
Kentwood								
Construction	0	0.00	0	0.00	0	0.00	0	0.00
Abandonment	0	0.00	0	0.00	0	0.00	0	0.00
	0	0.00	0	0.00	0	0.00	0	0.00
Cascade Twp.								
Construction	0	0.00	0	0.00	0	0.00	0	0.00
Abandonment	0	0.00	0	0.00	0	0.00	0	0.00
Abditaoninent	0	0.00	0	0.00	0	0.00	0	0.00
G.R. Twp.					_			
Construction	6,920	1.31	231	0.04	0	0.00	7,151	1.35
Abandonment	0	0.00	(229)	(0.04)	0	0.00	(229)	(0.04)
	6,920	1.31	2	0.00	0	0.00	6,922	1.31
Tallmadge Twp.								
Construction	0	0.00	0	0.00	0	0.00	0	0.00
Abandonment	0	0.00	0	0.00	0	0.00	0	0.00
	0	0.00	0	0.00	0	0.00	0	0.00
Walker								
Construction	0	0.00	0	0.00	0	0.00	0	0.00
Abandonment	0	0.00	0	0.00	0	0.00	Ō	0.00
	0	0.00	0	0.00	0	0.00	0	0.00
TOTAL	6,361	1.20	1,262	0.24	0		7,623	1.44
11 1			-,202				1,520	1, 17

	CONTRIBUTIONS					
	COMM OTHER	TOTAL				
Integrated	\$ -	\$ -				
Grand Rapids	267,089	267,089				
Kentwood	-	-				
Cascade Twp.	-	-				
Grand Rapids Twp.	516,004	516,004				
Tallmadge Twp.	-	-				
Walker						
TOTAL	\$ 783,093 \$	- \$ 783,093				

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND OPERATING EXPENSE ALLOCATION BY COST CENTER - TASK #4, PART 1 FISCAL YEAR ENDED JUNE 30, 2013

				PUMPING	STATIONS		WATERMAINS		RETAIL		
ACTIVITY CODE	ACTIVITY	EXPENSE BY ACTIVITY	FILTRATION PLANT	PRIMARY	INTERM.	PRIMARY TRANSPORT	INTERMED. TRANSPORT	LOCAL DISTRIBUTION	CUSTOMER METERING	ENGIN. SERVICES	ADMIN. EXPENSE
0430	TREASURER-CUSTOMER SERVICE	\$ 455,112							\$ 455,112		
4312	WATER-CUSTOMER SERVICE *	2,077,749							2,077,749		
4315	ENGINEERING	1,018,319								1,018,319	
4320	COLDBROOK CONTROL	1,293,269		1,293,269							
4322	COLDBROOK DISTRIBUTION	2,307,426		741,222	1,566,204						
4331	FIELD OPERATIONS	5,748,493				287,597	1,473,109	3,987,787			
4342	FILTRATION	6,645,564	6,645,564						The state of the s		
4311	SUBTOTAL OPERATING EXPENSE ADMINISTRATION	19,545,932 2,705,421	6,645,564	2,034,491	1,566,204	287,597	1,473,109	3,987,787	2,532,861	1,018,319	2,705,421
	TOTAL	\$ 22,251,353	\$ 6,645,564	\$ 2,034,491	\$ 1,566,204	\$ 287,597	\$ 1,473,109	\$ 3,987,787	\$ 2,532,861	\$ 1,018,319	\$ 2,705,421

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.

METHOD	OF	DIST	RIBU	ITION
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	or Biotimization										
0430	TREASURER-CUSTOMER SERVICE	100.000%							100.000%		
4312	WATER-CUSTOMER SERVICE	100.000%							100.000%		
4315	ENGINEERING	100.000%								100,000%	
4320	COLDBROOK CONTROL	100.000%		100.000%							
4322	COLDBROOK DISTRIBUTION	100.000%		32.120%	67.880%						
4331	FIELD OPERATIONS TOTAL MILES OF MAIN 1,164.84	100.000%				5.003% 58.28	25.626% 298.50	69.371% 808.06			
4342	FILTRATION	100.000%	100.000%								
4311	ADMINISTRATION	100.000%									100.000%

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND OPERATING EXPENSE ALLOCATION BY GOVERNMENTAL UNIT - TASK #4, PART 2 FISCAL YEAR ENDED JUNE 30, 2013

					RET	AIL				WHOLESALE	
COST CENTER	EXPENSE BY COST CENTER	INTEGRATED SYSTEM	CITY OF GR	CITY OF WALKER	CITY OF KENTWOOD	CASCADE TOWNSHIP	GR TOWNSHIP	TALLMADGE TOWNSHIP	CITY OF EAST GR	COUNTY OF OTTAWA	ADA TOWNSHIP
FILTRATION PLANT	\$ 6,645,564	\$ 6,645,564			- Committee - Comm						
PUMPING STATIONS: A. PRIMARY TRANSPORT B. INTERMEDIATE TRANSPORT	2,034,491 1,566,204	2,034,491	1,222,326	40,348	303,530		-	-			
WATERMAINS: A. PRIMARY TRANSPORT B. INTERMEDIATE TRANSPORT C. LOCAL DISTRIBUTION	287,597 1,473,109 3,987,787		236,324 564,230 2,939,716	15,890 309,279 309,412	22,502 267,325 270,053	8,291 191,769 212,709	4,590 120,265 244,053	20,241 11,844	- - -	- - -	-
RETAIL CUSTOMER METERING	2,532,861		1,917,857	206,302	163,825	108,077	131,658	5,142			
SUBTOTAL OPERATING EXPENSE	18,527,613	8,680,055	6,880,453	881,231	1,027,235	520,846	500,566	37,227	-	-	-
ENGINEERING SERVICES	1,018,319	477,082	378,163	48,431	56,456	28,625	27,515	2,047	-	-	
ADMINISTRATIVE EXPENSE	2,705,421	1,267,490	1,004,685	128,670	149,989	76,049	73,100	5,438			
TOTAL	\$ 22,251,353	\$ 10,424,627	\$ 8,263,301	\$ 1,058,332	\$ 1,233,680	\$ 625,520	\$ 601,181	\$ 44,712	\$ -	\$ -	\$ -
METHOD OF DISTRIBUTION											
FILTRATION PLANTS	100.00%	100.00%									
PUMPING STATIONS											
A. PRIMARY TRANSPORT	100.00%	100.00%									
B. INTERMEDIATE TRANSPORT MEMO	100.00%		78.044%	2.576%	19.380%						
WATERMAINS TOTAL MILES: 1,164.84											
A. PRIMARY TRANSPORT MILES 58.28	100.000%		82.172% 47.89	5.525% 3.22	7.824% 4.56	2.883% 1.68	1.596% 0.93	-	-	-	-
B. INTERMEDIATE TRANSPORT	100.000%		38.302%	20.995%	18.147%	13.018%	8.164%	1.374%			
MILES 298.50 C. LOCAL DISTRIBUTION	100.000%		114.33 73.718%	62.67 7.759%	54.17 6.772%	38.86 5.334%	24.37 6.120%	4.10 0.297%	-	•	-
MILES 808.06			595.69	62.70	54.72	43.10	49.45	2.40	-	-	-
RETAIL CUSTOMER METERING (1) NUMBER OF METERS 80,150.00	100.000%		75.719% 60,689.00	8.145% 6,528.00	6.468% 5,184.00	4.267% 3,420.00	5.198% 4,166.00	0.203% 163.00			
ENGINEERING SERVICES (2)	100.000%	46.850%	37.136%	4.756%	5.544%	2.811%	2.702%	0.201%			
ADMINISTRATIVE EXPENSE (3)	100.000%	46.850%	37.136%	4.756%	5.544%	2.811%	2.702%	0.201%			
ADMINIOLKATIVE EXCENSE (3)	100.000%	45.850%	37.136%	4.755%	5.544%	2.011%	2.102%	0.201%			

NOTES:

- (1) ALLOCATION BASED ON NUMBER OF METERS.
- (2) ALLOCATION BASED ON DIRECT OPERATING EXPENSE.
- (3) ALLOCATION BASED ON DIRECT OPERATING EXPENSE, ADJUSTED FOR ANY COST ASSIGNABLE EXCLUSIVELY TO GR OR RETAIL COMMUNITIES, IF APPLICABLE.

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND ADJUSTED OPERATING EXPENSE ALLOCATION BY COST CENTER - TASK #5, PART 1 FISCAL YEAR ENDED JUNE 30, 2013

		ADJUSTED		PUMPING	STATIONS		WATERMAINS		RETAIL		
ACTIVITY CODE	ACTIVITY	EXPENSE BY ACTIVITY	FILTRATION PLANT	PRIMARY	INTERM.	PRIMARY TRANSPORT	INTERMED. TRANSPORT	LOCAL DISTRIBUTION	CUSTOMER METERING	ENGIN. SERVICES	ADMIN. EXPENSE
0430	TREASURER-CUSTOMER SERVICE	\$ 450,679							\$ 450,679		
4312	WATER-CUSTOMER SERVICE *	2,224,611							2,224,611		
4315	ENGINEERING	1,048,076								1,048,076	
4320	COLDBROOK CONTROL	1,331,932		1,331,932							
4322	COLDBROOK DISTRIBUTION	1,728,838		555,360	1,173,478						
4331	FIELD OPERATIONS	5,829,935				291,672	1,493,979	4,044,284			
4342	FILTRATION	6,687,356	6,687,356			-					
4311	SUBTOTAL OPERATING EXPENSE ADMINISTRATION	19,301,427 2,804,888	6,687,356	1,887,292	1,173,478	291,672	1,493,979	4,044,284	2,675,290	1,048,076	2,804,888
	TOTAL	\$ 22,106,315	\$ 6,687,356	\$ 1,887,292	\$ 1,173,478	\$ 291,672	\$ 1,493,979	\$ 4,044,284	\$ 2,675,290	\$ 1,048,076	\$ 2,804,888

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.

0430	TREASURER-CUSTOMER SERVICE	100.000%							100.000%		
4312	WATER-CUSTOMER SERVICE	100.000%							100.000%		
4315	ENGINEERING	100.000%								100.000%	
4320	COLDBROOK CONTROL	100.000%		100.000%							
4322	COLDBROOK DISTRIBUTION	100.000%		32.120%	67.880%						
4331	FIELD OPERATIONS TOTAL MILES OF MAIN 1,164.84	100.000%				5.003% 58.28	25.626% 298.50	69.371% 808.06			
4342	FILTRATION	100.000%	100.000%								
4311	ADMINISTRATION	100.000%									100.000%

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND ADJUSTED OPERATING EXPENSE ALLOCATION BY GOVERNMENTAL UNIT - TASK #5, PART 2 FISCAL YEAR ENDED JUNE 30, 2013

	ADJUSTED				RET	AIL				WHOLESALE	
COST CENTER	EXPENSE BY COST CENTER	INTEGRATED SYSTEM	CITY OF GR	CITY OF WALKER	CITY OF KENTWOOD	CASCADE TOWNSHIP	GR TOWNSHIP	TALLMADGE TOWNSHIP	CITY OF EAST GR	COUNTY OF OTTAWA	ADA TOWNSHIP
FILTRATION PLANT	\$ 6,687,356	\$ 6,687,356		YYNLINLIN	KLIVIVOOD	1044401111	10441401111	10441401111	LAUTON		1044101111
PUMPING STATIONS: A. PRIMARY TRANSPORT B. INTERMEDIATE TRANSPORT	1,887,292 1,173,478	1,887,292	915,827	30,231	227,420	-	-	-			
WATERMAINS: A. PRIMARY TRANSPORT B. INTERMEDIATE TRANSPORT C. LOCAL DISTRIBUTION	291,672 1,493,979 4,044,284		239,673 572,225 2,981,365	16,115 313,661 313,796	22,820 271,112 273,879	8,409 194,486 215,722	4.655 121,968 247,510	20,527 12,012	-	-	
RETAIL CUSTOMER METERING	2,675,290		2,025,702	217,902	173,038	114,155	139,062	5,431			
SUBTOTAL OPERATING EXPENSE	18,253,351	8,574,648	6,734,792	891,705	968,269	532,772	513,195	37,970	-	-	**
ENGINEERING SERVICES	1,048,076	492,334	386,698	51,199	55,600	30,593	29,472	2,180	-	-	-
ADMINISTRATIVE EXPENSE	2,804,888	1,317,597	1,034,891	137,019	148,799	81,875	78,873	5,834		-	-
TOTAL	\$ 22,106,315	\$ 10,384,579	\$ 8,156,381	\$ 1,079,923	\$ 1,172,668	\$ 645,240	\$ 621,540	\$ 45,984	\$ -	\$ -	\$ -
METHOD OF DISTRIBUTION FILTRATION PLANTS	100.00%	100.00%									
PUMPING STATIONS											
A. PRIMARY TRANSPORT	100.00%	100.00%									
B. INTERMEDIATE TRANSPORT MEMO	100.00%		78.044%	2.576%	19.380%						
WATERMAINS TOTAL MILES: 1,164.84											
A. PRIMARY TRANSPORT MILES 58.28	100.000%		82.172% 47.89	5.525% 3.22	7.824% 4.56	2.883% 1.68	1.596% 0.93	-	-	•	-
B. INTERMEDIATE TRANSPORT MILES 298.50	100.000%		38.302% 114.33	20.995% 62.67	18.147% 54.17	13,018% 38.86	8.164% 24.37	1.374% 4.10		_	_
C. LOCAL DISTRIBUTION MILES 808.06	100.000%		73.718% 595.69	7.759% 62.70	6.772% 54.72	5.334% 43.10	6.120% 49.45	0.297% 2.40	-		-
RETAIL CUSTOMER METERING (1) NUMBER OF METERS 80,150.00	100.000%		75.719% 60,689.00	8.145% 6,528.00	6.468% 5,184.00	4.267% 3,420.00	5.198% 4,166.00	0.203% 163.00			
ENGINEERING SERVICES (2)	100.000%	46.975%	36.896%	4.885%	5.305%	2.919%	2.812%	0.208%			
ADMINISTRATIVE EXPENSE (3)	100.000%	46.975%	36.896%	4.885%	5.305%	2.919%	2.812%	0.208%			

NOTES:

- (1) ALLOCATION BASED ON NUMBER OF METERS.
- (2) ALLOCATION BASED ON DIRECT OPERATING EXPENSE.
- (3) ALLOCATION BASED ON DIRECT OPERATING EXPENSE, ADJUSTED FOR ANY COST ASSIGNABLE EXCLUSIVELY TO GR OR RETAIL COMMUNITIES, IF APPLICABLE.

ORGAN	NIZATIONAL UNIT: 4301, 4311 & 4480 - ADMINI	STRATION	ADJUSTED	ADJUSTED CURRENT
	EXPENDITURE SUB-OBJECT	OPERATING	COST	ANNUAL
NO.	DESCRIPTION	EXPENSES	FACTORS	EXPENSES
7020	PERMANENT EMPLOYEES	\$ 553,533.56	\$ -	\$ 553,533.56
7040	TEMPORARY EMPLOYEES	38.00	.	38.00
7055	TIME & ONE-HALF	18.73	_	18.73
7033	EMPLOYERS SOCIAL SECURITY	38,496.59	•	38,496.59
	HOSPITALIZATION INSURANCE		3,424.39	80,376.96
7110		76,952.57		
7115	RETIREE HEALTH CARE	83,977.83	2,032.26	86,010.09
7120	RETIREMENT FUND CONTRIBUTION	80,603.29	-	80,603.29
7125	SPECIAL PENSION BENEFITS	8,683.34	-	8,683.34
7135	UNEMPLOYMENT COMPENSATION	755.60	-	755.60
7150	LONGEVITY PAY	2,898.00	-	2,898.00
7165	SHIFT DIFFERENTIAL	1.20		1.20
	TOTAL PERSONAL SERVICES	845,958.71	5,456.65	851,415.36
7260	SUPPLIES	3,769.20	-	3,769.20
	TOTAL SUPPLIES	3,769.20		3,769.20
0440	OOMBUTED OFFINATO	07.005.00	07.704.00	54.000.00
8140	COMPUTER SERVICES	27,285.00	27,701.00	54,986.00
8160	ENGINEERING SERVICES	22,278.75	- 	22,278.75
8180	CONTRACTUAL SERVICES	53,887.78	196,400.00	250,287.78
8355	GENERAL LIABILITY INSURANCE / CLAIMS	237,838.00	54,584.00	292,422.00
8450	INSURANCE PREMIUMS	159,768.74	-	159,768.74
8500	TELEPHONE	27,206.70	-	27,206.70
8800	COMMUNITY PROMOTION	442.20	-	442.20
8850	ADVERTISING - ANY MEDIA	(92.95)	_	(92.95)
9000	PRINTING & PUBLISHING	5,435.00	-	5,435.00
9300	MAINTENANCE SERVICE	1,024.83	-	1,024.83
9330	PAVEMENT REPAIR	343.98	_	343.98
9430	LAND RENTAL OR LEASE	3,854.70	_	3,854.70
9440	VEHICLE RENTAL/CAR MILEAGE	2,801.62	_	2,801.62
9550	PROFESSIONAL DEVELOPMENT	12,501.68	_	12,501.68
9552	OTHER TRAVEL AND TRAINING	14,049.16	_	14,049.16
9556	MEMBERSHIPS	46,146.24	_	46,146.24
9558	PUBLICATIONS AND SUBSCRIPTIONS	887.15	_	887.15
9610	FEES	240.00	_	240.00
9616	ADMINISTRATIVE SERVICES (ICB)	143,655.00	(143,655.00)	240.00
	• • •	,	(143,055.00)	7,164.50
9620	BAD DEBT WRITE-OFFS	7,164.50	405,000,00	
	TOTAL OTHER SERVICES & CHARGES	766,718.08	135,030.00	901,748.08
9735	BLD. ADDITIONS/IMPROVEMENTS	82.58	-	82.58
9760	EQUIPMENT	25,606.31	-	25,606.31
	TOTAL CAPITAL	25,688.89	-	25,688.89
9993	OPERATING TRANS-PROJECTS	22,000.00	_	22,000.00
9992	OPERATING TRANSFERS-A87 COST	1,041,286.00	(41,020.00)	1,000,266.00
9992	TOTAL TRANSFERS/FEES	1,063,286.00	(41,020.00)	1,022,266.00
				.,,
	ORGANIZATIONAL UNIT TOTAL	\$ 2,705,420.88	\$ 99,466.65	\$ 2,804,887.53

ORGAN	NIZATIONAL UNIT: 4312- CUSTOMER SERVICI	≣S	_			
			ADJUSTED	CURRENT		
	EXPENDITURE SUB-OBJECT	OPERATING	COST	ANNUAL		
NO.	DESCRIPTION	EXPENSES	FACTORS	EXPENSES		
7020	PERMANENT EMPLOYEES	\$ 1,629,260.17	\$ -	\$ 1,629,260.17		
7025	ACT.ASSIGNMENT	11,607.68	-	11,607.68		
7040	TEMPORARY EMPLOYEES	13,438.48	-	13,438.48		
7055	TIME & ONE-HALF	69,091.92	-	69,091.92		
7105	EMPLOYERS SOCIAL SECURITY	129,625.98	-	129,625.98		
7110	HOSPITALIZATION INSURANCE	408,875.18	18,194.95	427,070.13		
7115	RETIREE HEALTH CARE	256,095.36	6,197.51	262,292.87		
7120	RETIREMENT FUND CONTRIBUTION	309,876.21	-	309,876.21		
7135	UNEMPLOYMENT COMPENSATION	2,865.00	-	2,865.00		
7150	LONGEVITY PAY	21,720.47	_	21,720.47		
7165	SHIFT DIFFERENTIAL	903.48	-	903.48		
	TOTAL PERSONAL SERVICES	2,853,359.93	24,392.46	2,877,752.39		
7260	SUPPLIES	228,923.08	-	228,923.08		
7300	POSTAGE	21,116.37		21,116.37		
	TOTAL SUPPLIES	250,039.45		250,039.45		
8140	COMPUTER SERVICES	174.428.04	10,192.96	184,621.00		
8140	COMPUTER SERVICES (CIS-DEPR & ROI)	77 1, 120.01	284,011.00	284,011.00		
8180	CONTRACTUAL SERVICES	640,320.50	201,011.00	640,320.50		
8500	TELEPHONE	3,067.62	_	3,067.62		
9000	PRINTING & PUBLISHING	3,068.34	_	3,068.34		
9300	MAINTENANCE SERVICE	397,321.29	_	397,321.29		
9420	EQUIPMENT RENTALS OR LEASE	130,031.81	_	130,031.81		
9440	VEHICLE RENTAL/CAR MILEAGE	11,701.16	_	11,701.16		
9552	OTHER TRAVEL AND TRAINING	1,293.40	<u>-</u>	1,293.40		
9554	LOCAL BUSINESS EXPENSE	468.80	_	468.80		
0004	TOTAL OTHER SERVICES & CHARGES	1,361,700.96	294,203.96	1,655,904.92		
9990	OPERATING TRANS OUT-SUBSIDIES	292,161.00	(292,161.00)	-		
	TOTAL TRANSFERS/FEES	292,161.00	(292,161.00)			
	ORGANIZATIONAL UNIT TOTAL (GROSS)	\$ 4,757,261.34	\$ 26,435.42	\$ 4,783,696.76		
	LESS: SDSF CONTRIBUTION *	(2,679,512.00)	120,425.92	(2,559,086.08)		
	ORGANIZATIONAL UNIT TOTAL (NET)	\$ 2,077,749.34	\$ 146,861.34	\$ 2,224,610.68		

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.

ORGAN	NIZATIONAL UNIT: 4315- ENGINEERING					1	ADJUSTED
				/	ADJUSTED		CURRENT
	EXPENDITURE SUB-OBJECT	С	PERATING		COST		ANNUAL
NO.	DESCRIPTION	E	EXPENSES		FACTORS	E	EXPENSES
7020	PERMANENT EMPLOYEES	\$	485,191.39	\$	~	\$	485,191.39
7055	TIME & ONE-HALF		1,118.37		-		1,118.37
7105	EMPLOYERS SOCIAL SECURITY		34,890.28		-		34,890.28
7110	HOSPITALIZATION INSURANCE		104,404.66		4,646.01		109,050.67
7115	RETIREE HEALTH CARE		75,246.57		1,820.97		77,067.54
7120	RETIREMENT FUND CONTRIBUTION		79,669.47		-		79,669.47
7125	SPECIAL PENSION BENEFITS		4,798.35		-		4,798.35
7135	UNEMPLOYMENT COMPENSATION		673.62		-		673.62
7150	LONGEVITY PAY		4,307.00				4,307.00
	TOTAL PERSONAL SERVICES		790,299.71		6,466.98		796,766.69
7260	SUPPLIES		3,128.86		-		3,128.86
7300	POSTAGE		174.00				174.00
	TOTAL SUPPLIES		3,302.86		-		3,302.86
8140	COMPUTER SERVICES		44,337.96		23,290.04		67,628.00
8180	CONTRACTUAL SERVICES		95,155.62		-		95,155.62
9000	PRINTING & PUBLISHING		461.00		-		461.00
9300	MAINTENANCE SERVICE		4,624.02		-		4,624.02
9420	EQUIPMENT RENTALS OR LEASE		37,283.84		-		37,283.84
9440	VEHICLE RENTAL/CAR MILEAGE		1,173.00		_		1,173.00
	TOTAL OTHER SERVICES & CHARGES		183,035.44		23,290.04		206,325.48
9760	EQUIPMENT		18,026.43		-		18,026.43
	TOTAL CAPITAL		18,026.43		-		18,026.43
9994	OPERATING TRANS-DEV CENTER		23,655.00		-		23,655.00
	TOTAL TRANSFERS/FEES		23,655.00		-		23,655.00
	ODGANIZATIONAL LINUT TOTAL	_		•	00 757 00	•	4 0 4 0 0 7 0 3 0
	ORGANIZATIONAL UNIT TOTAL	\$	1,018,319.44	\$	29,757.02		1,048,076.46

ORGANIZATIONAL UNIT: 4320- COLDBROOK CONTROL **ADJUSTED ADJUSTED CURRENT EXPENDITURE SUB-OBJECT OPERATING** COST **ANNUAL** DESCRIPTION **FACTORS** NO. **EXPENSES EXPENSES** 7020 PERMANENT EMPLOYEES 711,551.41 711,551.41 7025 **ACT.ASSIGNMENT** 4.08 4.08 7050 **REGULAR HOURLY RATE** 3,687.06 3,687.06 7055 TIME & ONE-HALF 33,000.35 33,000.35 **EMPLOYERS SOCIAL SECURITY** 55,968.20 7105 55,968.20 7110 HOSPITALIZATION INSURANCE 153,515.00 6,831.42 160,346.42 7115 RETIREE HEALTH CARE 111,401.96 2,695.93 114,097.89 7120 RETIREMENT FUND CONTRIBUTION 130,893.75 130,893.75 **UNEMPLOYMENT COMPENSATION** 1,015.93 1,015.93 7135 7150 LONGEVITY PAY 10,307.13 10,307.13 7,276.87 7165 SHIFT DIFFERENTIAL 7,276.87 1,228,149.09 TOTAL PERSONAL SERVICES 1,218,621.74 9,527.35 7260 **SUPPLIES** 5,676.04 5,676.04 7680 CLOTHING/CLEANING ALLOWANCE 409.80 409.80 TOTAL SUPPLIES 6,085.84 6,085.84 8140 COMPUTER SERVICES 35,079.96 29,136.04 64,216.00 8500 **TELEPHONE** 24,766.34 24,766.34 9420 **EQUIPMENT RENTALS OR LEASE** 8,128.67 8,128.67 9440 VEHICLE RENTAL/CAR MILEAGE 586.50 586.50 29,136.04 TOTAL OTHER SERVICES & CHARGES 68,561.47 97,697.51 ORGANIZATIONAL UNIT TOTAL \$ 1,293,269.05 \$ 38,663.39 \$ 1,331,932.44

ORGAN	NIZATIONAL UNIT: 4322- COLDBROOK DISTF		/	ADJUSTED			
				ADJUSTED	CURRENT		
	EXPENDITURE SUB-OBJECT	С	PERATING	COST		ANNUAL	
NO.	DESCRIPTION		EXPENSES	FACTORS	EXPENSES		
7020	PERMANENT EMPLOYEES	\$	427,058.05	\$ -	\$	427,058.05	
7055	TIME & ONE-HALF		1,421.44	-		1,421.44	
7105	EMPLOYERS SOCIAL SECURITY		30,501.28	-		30,501.28	
7110	HOSPITALIZATION INSURANCE		97,551.12	4,341.02		101,892.14	
7115	RETIREE HEALTH CARE		67,636.75	1,636.81		69,273.56	
7120	RETIREMENT FUND CONTRIBUTION		79,651.03	-		79,651.03	
7135	UNEMPLOYMENT COMPENSATION		593.68	-		593.68	
7150	LONGEVITY PAY		5,365.00	 -		5,365.00	
	TOTAL PERSONAL SERVICES		709,778.35	5,977.83		715,756.18	
7260	SUPPLIES		16,858.24	<u></u>		16,858.24	
7300	POSTAGE		114.95	_		114.95	
	TOTAL SUPPLIES		16,973.19	-	***************************************	16,973.19	
8140	COMPUTER SERVICES		14,130.00	(14,130.00)		_	
8180	CONTRACTUAL SERVICES		26,824.00	-		26,824.00	
8500	TELEPHONE		594.81	_		594.81	
9210	ELECTRICITY		1,375,021.28	(19,655.78)		1,355,365.50	
9220	WATER		4,137.29			4,137.29	
9230	NATURAL GAS		72,022.81	-		72,022.81	
9300	MAINTENANCE SERVICE		19,360.82	-		19,360.82	
9330	PAVEMENT REPAIR		236.22	-		236.22	
9420	EQUIPMENT RENTALS OR LEASE		64,847.27	-		64,847.27	
9610	FEES		365.00	_		365.00	
9622	REFUSE COLLECTION CHARGES		3,107.15	-		3,107.15	
XXXX	FACILITY RENTALS			 (550,780.73)		(550,780.73)	
	TOTAL OTHER SERVICES & CHARGES		1,580,646.65	(584,566.51)		996,080.14	
9760	EQUIPMENT		27.99	_		27.99	
	TOTAL CAPITAL		27.99			27.99	
	ORGANIZATIONAL UNIT TOTAL	\$	2,307,426.18	\$ (578,588.68)	\$	1,728,837.50	

ORGA	NIZATIONAL UNIT: 4331- FIELD OPERATIONS	;		ADJUSTED
			ADJUSTED	CURRENT
	EXPENDITURE SUB-OBJECT	OPERATING	COST	ANNUAL
NO.	DESCRIPTION	EXPENSES	FACTORS	EXPENSES
7020	PERMANENT EMPLOYEES	\$ 1,408,660.14	\$ -	\$ 1,408,660.14
7025	ACT.ASSIGNMENT	1,772.37	-	1,772.37
7055	TIME & ONE-HALF	165,671.73	-	165,671.73
7105	EMPLOYERS SOCIAL SECURITY	115,098.44	-	115,098.44
7110	HOSPITALIZATION INSURANCE	335,107.46	14,912.28	350,019.74
7115	RETIREE HEALTH CARE	219,188.55	5,304.36	224,492.91
7120	RETIREMENT FUND CONTRIBUTION	258,575.30	-	258,575.30
7125	SPECIAL PENSION BENEFITS	59.42	-	59.42
7135	UNEMPLOYMENT COMPENSATION	1,981.59	-	1,981.59
7150	LONGEVITY PAY	15,931.70	-	15,931.70
7165	SHIFT DIFFERENTIAL	2,742.70	_	2,742.70
	TOTAL PERSONAL SERVICES	2,524,789.40	20,216.64	2,545,006.04
7260	SUPPLIES	66,385.28	-	66,385.28
7300	POSTAGE	149.69	-	149.69
7680	CLOTHING/CLEANING ALLOWANCE	885.24		885.24
	TOTAL SUPPLIES	67,420.21		67,420.21
8140	COMPUTER SERVICES	78,444.00	61,226.00	139,670.00
8180	CONTRACTUAL SERVICES	192,213.32	-	192,213.32
9210	ELECTRICITY	56,073.38	_	56,073.38
9220	WATER	436.44	_	436.44
9230	NATURAL GAS	28,293.15	_	28,293.15
9300	MAINTENANCE SERVICE	263,920.35	_	263,920.35
9330	PAVEMENT REPAIR	1,701,600.00	_	1,701,600.00
9420	EQUIPMENT RENTALS OR LEASE	820,031.74	_	820,031.74
9440	VEHICLE RENTAL/CAR MILEAGE	1,904.50	_	1,904.50
9552	OTHER TRAVEL AND TRAINING	1,941.97	_	1,941.97
9554	LOCAL BUSINESS EXPENSE	95.45	_	95.45
3004	TOTAL OTHER SERVICES & CHARGES	3,144,954.30	61,226.00	3,206,180.30
	2 2 2 2			
9760	EQUIPMENT	11,328.75	-	11,328.75
	TOTAL CAPITAL	11,328.75		11,328.75
	ORGANIZATIONAL UNIT TOTAL	\$ 5,748,492.66	\$ 81,442.64	\$ 5,829,935.30

ORGANIZATIONAL UNIT: 4342- LAKE MI. FILTRATION **ADJUSTED ADJUSTED** CURRENT **EXPENDITURE SUB-OBJECT OPERATING** COST ANNUAL NO. DESCRIPTION **FACTORS EXPENSES EXPENSES** 7020 PERMANENT EMPLOYEES \$ 1,693,972.85 \$ 1,693,972.85 7025 **ACT.ASSIGNMENT** 2,228.36 2,228.36 7050 REGULAR HOURLY RATE 1,753.12 1,753.12 7055 TIME & ONE-HALF 36,577.95 36,577.95 7105 **EMPLOYERS SOCIAL SECURITY** 128,392.29 128,392.29 17,137.00 7110 HOSPITALIZATION INSURANCE 385,101.03 402,238.03 7115 RETIREE HEALTH CARE 267,988.07 6,485.31 274,473.38 7120 RETIREMENT FUND CONTRIBUTION 315,581.16 315,581.16 7135 **UNEMPLOYMENT COMPENSATION** 2,399.30 2,399.30 7150 LONGEVITY PAY 15,300.88 15,300.88 7165 SHIFT DIFFERENTIAL 7,596.82 7,596.82 TOTAL PERSONAL SERVICES 23,622.31 2,880,514.14 2,856,891.83 7260 **SUPPLIES** 910,414.85 910,414.85 7300 **POSTAGE** 152.58 152.58 7680 CLOTHING/CLEANING ALLOWANCE 231.00 231.00 **TOTAL SUPPLIES** 910,798.43 910,798.43 8140 COMPUTER SERVICES 108,165.00 60,402.00 168,567.00 8180 CONTRACTUAL SERVICES 209,323.35 209,323.35 8500 **TELEPHONE** 9,693.26 9.693.26 **ELECTRICITY** (42, 231.53)1,990,563.76 9210 2,032,795.29 9230 NATURAL GAS 224,947.88 224,947.88 9300 MAINTENANCE SERVICE 184,287.96 184,287.96 9420 **EQUIPMENT RENTALS OR LEASE** 99,717.39 99,717.39 9440 VEHICLE RENTAL/CAR MILEAGE 1,173.00 1,173.00 9622 REFUSE COLLECTION CHARGES 517.98 517.98 18,170.47 2,888,791.58 **TOTAL OTHER SERVICES & CHARGES** 2,870,621.11 **SOFTWARE** 9765 7,252.20 7,252.20 TOTAL CAPITAL 7,252.20 7,252.20 ORGANIZATIONAL UNIT TOTAL \$ 6,645,563.57 \$ 41,792.78 \$ 6,687,356.35

ORGAN	NIZATIONAL UNIT: 0430- TREASURER- CUSTC	MEF	R SERV'S			/	ADJUSTED	
				F	ADJUSTED		CURRENT	
	EXPENDITURE SUB-OBJECT	О	PERATING		COST		ANNUAL	
NO.	DESCRIPTION	E	EXPENSES	1	FACTORS	EXPENSES		
7020	PERMANENT EMPLOYEES	\$	173,470.69	\$	_	\$	173,470.69	
7105	EMPLOYERS SOCIAL SECURITY		11,483.33		-		11,483.33	
7110	HOSPITALIZATION INSURANCE		38,485.49		1,712.60		40,198.09	
7115	RETIREE HEALTH CARE		25,804.48		624.47		26,428.95	
7120	RETIREMENT FUND CONTRIBUTION		29,012.31		-		29,012.31	
7125	SPECIAL PENSION BENEFITS		426.76		-		426.76	
7135	UNEMPLOYMENT COMPENSATION		227.52		-		227.52	
7150	LONGEVITY PAY		974.78		-		974.78	
	TOTAL PERSONAL SERVICES		279,885.36		2,337.07		282,222.43	
7260	SUPPLIES		4,218.46		-		4,218.46	
	TOTAL SUPPLIES		4,218.46		-		4,218.46	
8140	COMPUTER SERVICES		29,403.96		(6,770.96)		22,633.00	
8180	CONTRACTUAL SERVICES		12,411.26		-		12,411.26	
8355	GENERAL LIABILITY INSURANCE / CLAIMS		4,380.00		-		4,380.00	
9410	BUILDINGS RENTALS OR LEASE		6,784.53		-		6,784.53	
9440	VEHICLE RENTAL/CAR MILEAGE		5,232.91		-		5,232.91	
9610	FEES		112,795.94		-		112,795.94	
	TOTAL OTHER SERVICES & CHARGES		171,008.60		(6,770.96)		164,237.64	
	ORGANIZATIONAL UNIT TOTAL	\$	455,112.42	\$	(4,433.89)	\$	450,678.53	

DOC DESCRIPTION	ORGAN	NIZATIONAL. SUMMARY	OPERATING	ADJUSTED	ADJUSTED CURRENT
DECAMANENT EMPLOYEES \$ 7,082,698.26 \$. \$ 5,708,2698.26 \$. \$ 1,5612.49 7025 ACTASSIGNMENT 15,612.49 . 1,5612.49 7040 TEMPORARY EMPLOYEES 13,476.48 . 13,476.48 7050 REGULAR HOURLY PARTE 5,440.18 . 5,440.18 7055 TIME & ONE-HALF 300,900.49 . 300,900.49 7050 REGULAR HOURLY PARTE 5,440.18 . 544.46.63 7055 TIME & CONE-HALF 300,900.49 . 300,900.49 7050 REGULAR HOURLY PARTE 1,599.992.51 71,199.67 1,671,192.18 7110 HOSPITALIZATION INSURANCE 1,599.992.51 71,199.67 1,671,192.18 7115 RETIREMENT FUND CONTRIBUTION 1,283.862.52 . 1,283,862.52 7125 SPECIAL PENSION BENEFITS 13,967.87 26,797.62 1,134,317.17 7126 RETIREMENT FUND CONTRIBUTION 10,512.24 . 10,512.24 7150 LONGWITY PAY 76,804.99 . 7,804.99 7151 SUPPLIES 1,299.374.01 1,529.107 7150 LONGWITY PAY 76,804.99 . 7,804.99 7155 SUPPLIES 1,239.374.01 1,239.374.01 707AL PERSONAL SERVICES 1,239.374.01 1,239.374.01 707AL PERSONAL SERVICES 1,239.374.01 1,239.374.01 707AL SUPPLIES 1,239.374.01 1,239.374.01 707AL SUPPLIES 1,239.374.01 1,239.374.01 707AL SUPPLIES 1,239.374.01 1,239.374.01 1,239.374.01 707AL SUPPLIES 1,239.374.01 1,239.374.01 2,239.374.01 707AL SUPPLIES 1,239.374.01 1,242.607.64 1,222.607.6	-NO	EXPENDITURE SUB-OBJECT	OPERATING	COST	ANNUAL
15.612.49 1.5.					
TEMPORATY EMPLOYEES				Φ -	
TOTAL PERSONAL SECURITY				-	
7955 TIME & ONE-HALF 306,900.49 - 306,900.44 - 544,466.39 7110 HONDEVERS SOCIAL SECURITY 544,456.39 - 544,466.39 - 544,466.39 7110 HOSPITALIZATION INSURANCE 1,599,992.51 7,199.67 1,671,192.18 1,712.18 1,712.18 1,712.18 1,712.18 1,712.18 1,712.18 1,712.18 1,712.18 1,712.18 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19 1,717.19			·		
Title MORPICALERS SOCIAL SECURITY				_	
HOSPITALIZATION INSURANCE				_	
THIS RETIREE HEALTH CARE				71 199 67	
RETIREMENT FUND CONTRIBUTION					
1725 SPECIAL PENSION BENEFITS					
10.512			, ,	_	
T150	7135	UNEMPLOYMENT COMPENSATION	·	_	,
SHIFT DIFFERENTIAL	7150	LONGEVITY PAY	76,804.96		76,804.96
T2860 SUPPLIES 1,239,374,01 - 1,239,374,01 7300 POSTAGE 21,707,59 - 1,252,607,680 CLOTHING/CLEANING ALLOWANCE 1,526,607,640 - 2,527,676,750 - 2,527,67	7165	SHIFT DIFFERENTIAL	18,521.07	-	18,521.07
POSTAGE		TOTAL PERSONAL SERVICES	12,079,585.03	97,997.29	12,177,582.32
CLOTHING/CLEANING ALLOWANCE				-	1,239,374.01
TOTAL SUPPLIES				-	21,707.59
STATE	7680				1,526.04
B140 COMPUTER SERVICES (CIS-DEPR & ROI) 284,011.00 284,011.00 286,011.00 22,778,75 22,27		TOTAL SUPPLIES	1,262,607.64	-	1,262,607.64
8180 CNGINEERING SERVICES 22,278.75 - 22,278.75 8180 CONTRACTUAL SERVICES 1,230,135.83 196,400.00 1,426,535.83 84505 GENERAL LIABILITY INSURANCE / CLAIMS 242,218.00 54,584.00 296,802.00 84500 TELEPHONE 65,328.73 - 65,328.73 8800 COMMUNITY PROMOTION 442.20 - 442.20 8850 ADVERTISING - ANY MEDIA (92.95) - (92.95) 9000 PRINTING & PUBLISHING 8,964.34 - 8,964.34 9210 ELECTRICITY 3,463,889.95 (61,887.31) 3,402,002.64 9220 WATER 4,573.73 - 375,263.84 9300 MAINTENANCE SERVICE 870,539.27 - 870,539.27 9300 PAYEMENT REPAIR 1,702,180.20 - 1,702,180.20 9410 BULDINGS RENTALS OR LEASE 6,784.53 - 6,784.53 9420 EQUIPMENT RENTAL OR LEASE 1,160,040.72 - 1,160,040.72 9430			511,273.92	- 1	702,321.00
8180 CONTRACTUAL SERVICES 1,230,135,83 196,400,00 1,426,535,83 8355 GENERAL LIABILITY INSURANCE / CLAIMS 242,218,00 54,584,00 296,602,00 8500 TELEPHONE 65,328,73 - 65,328,73 8800 COMMUNITY PROMOTION 442,20 - 442,20 9000 PRINTING & PUBLISHING 8,964,34 - 8,964,34 9210 ELECTRICITY 3,463,889,95 (61,887,31) 3,402,002,64 9220 WATER 4,573,73 - 4,573,73 9230 MAINTENANCE SERVICE 870,539,27 - 870,539,27 9330 MAINTENANCE SERVICE 870,539,27 - 870,539,27 9330 PAVEMENT REPAIR 1,702,180,20 - 1,702,180,20 9410 BUILDINGS RENTALS OR LEASE 6,784,53 - 1,600,407,2 9430 LAND RENTAL OR LEASE 3,854,70 - 1,600,407,2 9430 LECILIZE RENTAL/CAR MILEAGE 24,572,69 - 24,572,69 9550				284,011.00	
8355 GENERAL LIABILITY INSURANCE / CLAIMS 242,218.00 54,584.00 296,802.00 8450 INSURANCE PREMIUMS 159,768.74 - 159,768.74 8500 TELEPHONE 65,328.73 - 65,328.73 8800 COMMUNITY PROMOTION 442.20 - 442.20 9000 PRINTING & PUBLISHING 8,964.34 - 8,964.34 9210 ELECTRICITY 3,463.889.95 (61,887.31) 3,402.002.64 9220 WATER 4,573.73 - 4,573.73 9230 NATURAL GAS 325,263.84 - 325,263.84 9300 MAINTENANCE SERVICE 870,539.27 - 870,539.27 9410 BULIDINGS RENTALS OR LEASE 6,784.53 - 6,784.53 9420 EQUIPMENT RENTALS OR LEASE 1,160,040.72 - 1,160,040.72 9430 LAND RENTAL OR LEASE 3,854.70 - 1,7284.53 9440 VEHICLE RENTAL/CAR MILEAGE 24,572.69 - 24,572.69 9550 PORCESSIONAL			· ·	400 400 00	
8450 INSURANCE PREMIUMS 159,768.74 159,768.74 8500 TELEPHONE 65,328.73 65,328.73 8850 COMUNITY PROMOTION 442.20 442.20 8850 ADVERTISING - ANY MEDIA (92.95) (92.95) 9000 PRINTING & PUBLISHING 3,963.8995 (61,887.31) 3,402,002 64 9210 ELECTRICITY 3,463,88995 (61,887.31) 3,402,002 64 9220 WATER 4,573,73 4,573,73 4,573,73 9330 NATURAL GAS 325,263,84 325,263,84 9330 MAINTENANCE SERVICE 870,539,27 870,539,27 9330 PAVEMENT REPAIR 1,702,180,20 1,702,180,20 9410 BUIDINGS RENTALS OR LEASE 6,784,53 6,784,53 9420 EQUIPMENT RENTALS OR LEASE 1,160,040,72 1,160,040,72 9430 LAND RENTAL OR LEASE 3,854,70 3,854,70 9440 VEHICLE RENTAL/CAR MILEAGE 24,572,69 24,572,69 9550 PROFESSIONAL DEVELOPMENT 12,501,68 12,501,6				,	
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8850 ADVERTISING - ANY MEDIA (92.95) - (92.95) 9000 PRINTING & PUBLISHING 8,964.34 - 8,964.34 9210 ELECTRICITY 3,463.889.95 (61,887.31) 3,402.002.64 9220 WATER 4,573.73 - 4,573.73 9300 MAINTENANCE SERVICE 870.539.27 - 870.539.27 9330 PAVEMENT REPAIR 1,702,180.20 - 1,702,180.20 9410 BUILDINGS RENTALS OR LEASE 6,784.53 - 6,784.53 9420 EQUIPMENT RENTALS OR LEASE 1,600.40.72 - 1,160.040.72 9430 LAND RENTAL OR LEASE 3,854.70 - 3,854.70 9440 VEHICLE RENTALICAR MILEAGE 24,572.69 - 24,572.69 9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 12,501.68 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9556 MEMBERSHIPS				-	,
9000 PRINTING & PUBLISHING 8,964.34 - 8,964.34 9210 ELECTRICITY 3,463,889.95 (61,887.31) 3,402,002.64 9220 WATER 4,573.73 - 4,573,73 9230 NATURAL GAS 325,263.84 - 325,263.84 9300 MAINTENANCE SERVICE 870,539.27 - 870,539.27 9330 PAVEMENT REPAIR 1,702,180.20 - 1,702,180.20 9410 BUILDINGS RENTALS OR LEASE 6,784.53 - 6,784.53 9420 EQUIPMENT RENTALS OR LEASE 1,160,040.72 - 1,160,040.72 9430 LAND RENTAL OR LEASE 3,854.70 - 3,854.70 9440 VEHICLE RENTALICAR MILEAGE 24,572.69 - 24,572.69 9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 564.25 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9555 PUBLICATIONS AND SU				-	
9210 ELECTRICITY 3,463,889.95 (61,887.31) 3,402,002.64 9220 WATER 4,573,73 - 4,573,73 9300 MATURAL GAS 325,263.84 - 325,263.84 9300 MAINTENANCE SERVICE 870,539.27 - 870,539.27 9330 PAVEMENT REPAIR 1,702,180.20 - 1,702,180.20 9410 BUIL DINGS RENTALS OR LEASE 6,784.53 - 6,784.53 9420 EQUIPMENT RENTALS OR LEASE 1,160,040.72 - 1,160,040.72 9430 LAND RENTAL OR LEASE 3,854.70 - 3,854.70 9440 VEHICLE RENTAL/CAR MILEAGE 24,572.69 - 24,572.69 9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9558 MEMBERSHIPS 46,146.24 - 46,146.24 9550 PUBLICATIONS AND SUBSCR			, ,	•	
9220 WATER 4,573.73 - 4,573.73 9230 NATURAL GAS 325,263.84 - 325,263.84 - 325,263.85 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 17,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 1,702,180.20 - 2,702,52 - 3,854.70				(61 997 21)	
9230 NATURAL GAS 325,263.84 - 325,263.84 9300 MAINTENANCE SERVICE 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 870,539.27 - 1,702,180.20 - 1,702,180.20 - - 6,784,53 - 6,784,53 - - 1,160,040.72 - 1,160,040.72 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 3,854,70 - 12,501.68 - 12,501.68 - 12,521,52 - 3,625 <				(01,007.31)	
9300 MAINTENANCE SERVICE 870,539.27 - 870,539.27 9330 PAVEMENT REPAIR 1,702,180.20 - 1,702,180.20 9410 BUILDINGS RENTALS OR LEASE 6,784.53 - - 6,784.53 9420 EQUIPMENT RENTALS OR LEASE 1,160,040.72 - 1,160,040.72 9430 LAND RENTAL OR LEASE 3,854.70 - 3,854.70 9440 VEHICLE RENTALICAR MILEAGE 24,572.69 - 24,572.69 9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9556 MEMBERSHIPS 46,145.24 - 46,145.24 9558 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 ADMINISTRATIVE SERVICES 113,400.94 - 113,400.94 9610 ADMINISTRATIVE SERVICES 7,164.50 - 7,164.50					
9330 PAVEMENT REPAIR 1,702,180.20 - 1,702,180.20 9410 BUILDINGS RENTALS OR LEASE 6,784.53 - 6,784.53 9420 EQUIPMENT RENTALS OR LEASE 1,160,040.72 - 1,160,040.72 9430 LAND RENTAL OR LEASE 3,854.70 - 3,854.70 9440 VEHICLE RENTAL/CAR MILEAGE 24,572.69 - 24,572.69 9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9555 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 REFES 113,400.94 - 113,400.94 9616 ADMINISTRATIVE SERVICES 143,655.00 (143,655.00) - 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 xxxx					
9410 BUILDINGS RENTALS OR LEASE 6,784.53 - 6,784.53 9420 EQUIPMENT RENTALS OR LEASE 1,160,040.72 - 1,160,040.72 9430 LAND RENTAL OR LEASE 3,854.70 - 3,854.70 9440 VEHICLE RENTAL/CAR MILEAGE 24,572.69 - 24,572.69 9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9556 MEMBERSHIPS 46,146.24 - 46,146.24 9558 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 FEES 113,400.94 - 113,400.94 9610 FEES 113,400.94 - 17,64.50 9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9620 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 xxxxx FACILITY RENTALS					
9420 EQUIPMENT RENTALS OR LEASE 1,160,040.72 - 1,160,040.72 9430 LAND RENTAL OR LEASE 3,854.70 - 3,854.70 9440 VEHICLE RENTAL/CAR MILEAGE 24,572.69 - 24,572.69 9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9556 MEMBERSHIPS 46,146.24 - 46,146.24 9558 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 FEES 113,400.94 - 113,400.94 9610 FEES 143,655.00 (143,655.00) - 9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9620 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 xxxx FACILITY RENTALS - (550,780.73) (550,780.73) TOTAL OTHER SERVICES & CHARGES 10,147,					
9430 LAND RENTAL OR LEASE 3,854.70 - 3,854.70 9440 VEHICLE RENTAL/CAR MILEAGE 24,572.69 - 24,572.69 9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9554 LOCAL BUSINESS EXPENSE 564.25 - 554.25 9556 MEMBERSHIPS 46,146.24 - 46,146.24 9558 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 FEES 113,400.94 - 113,400.94 9616 ADMINISTRATIVE SERVICES 143,655.00 (143,655.00) - 9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 XXXX FACILITY RENTALS (550,780.73) (550,780.73) (550,780.73) TOTAL OTHER SERVICES & CHARGES 10,147,246.61 (30,280.96) 10,116,965.65 9735 BLD. ADDI					
9440 VEHICLE RENTAL/CAR MILEAGE 24,572.69 - 24,572.69 9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9556 MEMBERSHIPS 46,146.24 - 46,146.24 9558 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 FEES 113,400.94 - 113,400.94 9610 FEES 7,164.50 - 7,164.50 9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 xxxx FACILITY RENTALS - (550,780.73) (550,780.73) TOTAL OTHER SERVICES & CHARGES 10,147,246.61 (30,280.96) 10,116,965.65 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9765 SOFTWARE 7,252.20	9430			-	
9550 PROFESSIONAL DEVELOPMENT 12,501.68 - 12,501.68 9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9556 MEMBERSHIPS 46,146.24 - 46,146.24 9558 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 FEES 113,400.94 - 113,400.94 9616 ADMINISTRATIVE SERVICES 143,655.00 (143,655.00) - 9622 REFUSE COLLECTION CHARGES 3,625.13 - 7,164.50 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 XXXXX FACILITY RENTALS - (550,780.73) (550,780.73 TOTAL OTHER SERVICES & CHARGES 10,147,246.61 (30,280.96) 10,116,965.65 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,25	9440			-	
9552 OTHER TRAVEL AND TRAINING 17,284.53 - 17,284.53 9554 LOCAL BUSINESS EXPENSE 564.25 - 564.25 9556 MEMBERSHIPS 46,146.24 - 46,146.24 9558 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 FEES 113,400.94 - 113,400.94 9616 ADMINISTRATIVE SERVICES 143,655.00 (143,655.00) - 9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 XXXX FACILITY RENTALS - (550,780.73) (550,780.73) (550,780.73) 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,252.20 - 7,252.20 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9994 OPERATING TRANS-PROJECTS </td <td>9550</td> <td>PROFESSIONAL DEVELOPMENT</td> <td>·</td> <td>-</td> <td></td>	9550	PROFESSIONAL DEVELOPMENT	·	-	
9556 MEMBERSHIPS 46,146.24 - 46,146.24 9558 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 FEES 113,400.94 - 113,400.94 9616 ADMINISTRATIVE SERVICES 143,655.00 (143,655.00) - 9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 XXXX FACILITY RENTALS - (550,780.73) (550,780.73) TOTAL OTHER SERVICES & CHARGES 10,147,246.61 (30,280.96) 10,116,965.65 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,252.20 - 7,252.20 TOTAL CAPITAL 62,324.26 - 62,324.26 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9994 OPERATING TRANS-COST 1,041,286.00 (41,020.00)<	9552	OTHER TRAVEL AND TRAINING	17,284.53	-	
9558 PUBLICATIONS AND SUBSCRIPTIONS 887.15 - 887.15 9610 FEES 113,400.94 - 113,400.94 9616 ADMINISTRATIVE SERVICES 143,655.00 (143,655.00) - 9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 XXXX FACILITY RENTALS - (550,780.73) (550,780.73) TOTAL OTHER SERVICES & CHARGES 10,147,246.61 (30,280.96) 10,116,965.65 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,252.20 - 7,252.20 TOTAL CAPITAL 62,324.26 - 62,324.26 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9994 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9992 OPERATING TRANSFERS-A87 COST 1,041,286.00	9554	LOCAL BUSINESS EXPENSE	564.25		564.25
9610 FEES 113,400.94 - 113,400.94 9616 ADMINISTRATIVE SERVICES 143,655.00 (143,655.00) - 9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 XXXX FACILITY RENTALS - (550,780.73) (550,780.73) TOTAL OTHER SERVICES & CHARGES 10,147,246.61 (30,280.96) 10,116,965.65 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,252.20 - 7,252.20 TOTAL CAPITAL 62,324.26 - 62,324.26 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9994 OPERATING TRANS-PROJECTS 292,161.00 (292,161.00) - 23,655.00 9992 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 70TAL TRANSFERS/FEES 1,041,286.00	9556	MEMBERSHIPS	46,146.24	-	46,146.24
9616 ADMINISTRATIVE SERVICES 143,655.00 (143,655.00) - 9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 XXXX FACILITY RENTALS - (550,780.73) (550,780.73) TOTAL OTHER SERVICES & CHARGES 10,147,246.61 (30,280.96) 10,116,965.65 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,252.20 - 7,252.20 TOTAL CAPITAL 62,324.26 - 62,324.26 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9990 OPERATING TRANS-OUT-SUBSIDIES 292,161.00 (292,161.00) - 23,655.00 9992 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9992 OPERATING TRANSFERS-A87 COST 1,041,286.00 (41,020.00) 1,000,266.00 TOTAL TRANSFE	9558	PUBLICATIONS AND SUBSCRIPTIONS	887.15	-	887.15
9620 BAD DEBT WRITE-OFFS 7,164.50 - 7,164.50 9622 REFUSE COLLECTION CHARGES 3,625.13 - 3,625.13 XXXX FACILITY RENTALS - (550,780.73) (550,780.73) TOTAL OTHER SERVICES & CHARGES 10,147,246.61 (30,280.96) 10,116,965.65 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,252.20 - 7,252.20 TOTAL CAPITAL 62,324.26 - 62,324.26 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9990 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9994 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9992 OPERATING TRANSFERS-A87 COST 1,041,286.00 (41,020.00) 1,000.266.00 TOTAL TRANSFERS/FEES 1,379,102.00 (333,181.00) 1,045,921.00 GRAND TOTAL- EXPENDITURES \$ 24	9610	FEES	113,400.94	-	113,400.94
9622 PREFUSE COLLECTION CHARGES 3,625.13 (550,780.73) - 3,625.13 (550,780.73) XXXX FACILITY RENTALS TOTAL OTHER SERVICES & CHARGES 10,147,246.61 (30,280.96) 10,116,965.65 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 (30,280.96) - 82.58 9760 EQUIPMENT 54,989.48 (30,280.96) - 54,989.48 9765 SOFTWARE TOTAL CAPITAL 7,252.20 (30,280.96) - 62,324.26 9993 OPERATING TRANS-PROJECTS (30,234.26) 22,000.00 (30,280.96) - 22,000.00 9990 OPERATING TRANS-PROJECTS (30,234.26) 292,161.00 (292,161.00) - 23,655.00 9994 OPERATING TRANS-DEV CENTER (30,655.00) 23,655.00 (41,020.00) 1,000,266.00 9992 OPERATING TRANS-DEV CENTER (30,655.00) 1,041,286.00 (41,020.00) 1,000,266.00 707AL TRANSFERS/FEES (1,379,102.00) (333,181.00) 1,045,921.00 GRAND TOTAL - EXPENDITURES (265,464.67) \$24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)	9616	ADMINISTRATIVE SERVICES	143,655.00	(143,655.00)	-
XXXX FACILITY RENTALS TOTAL OTHER SERVICES & CHARGES - (550,780.73) (550,780.73) 9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,252.20 - 7,252.20 TOTAL CAPITAL 62,324.26 - 62,324.26 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9990 OPERATING TRANS OUT-SUBSIDIES 292,161.00 (292,161.00) - 9994 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9992 OPERATING TRANSFERS-A87 COST 1,041,286.00 (41,020.00) 1,000,266.00 TOTAL TRANSFERS/FEES 1,379,102.00 (333,181.00) 1,045,921.00 GRAND TOTAL- EXPENDITURES \$ 24,930,865.54 \$ (265,464.67) \$ 24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)			7,164.50	-	7,164.50
9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9765 EQUIPMENT 54,989,48 - 54,989,48 9765 SOFTWARE 7,252,20 - 7,252,20 TOTAL CAPITAL 62,324,26 - 62,324,26 9993 OPERATING TRANS-PROJECTS 22,000,00 - 22,000,00 9990 OPERATING TRANS OUT-SUBSIDIES 292,161,00 (292,161,00) - 9994 OPERATING TRANS-DEV CENTER 23,655,00 - 23,655,00 9992 OPERATING TRANSFERS-A87 COST 1,041,286,00 (41,020,00) 1,000,266,00 TOTAL TRANSFERS/FEES 1,379,102,00 (333,181,00) 1,045,921,00 GRAND TOTAL- EXPENDITURES \$ 24,930,865,54 \$ (265,464,67) \$ 24,665,400,87 LESS: SDSF CONTRIBUTION (2,679,512,00) 120,425,92 (2,559,086,08)	9622		3,625.13		3,625.13
9735 BLD. ADDITIONS/IMPROVEMENTS 82.58 - 82.58 9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,252.20 - 7,252.20 TOTAL CAPITAL 62,324.26 - 62,324.26 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9990 OPERATING TRANS OUT-SUBSIDIES 292,161.00 (292,161.00) 9994 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9992 OPERATING TRANS-DEV CENTER 23,655.00 (41,020.00) 1,000,266.00 TOTAL TRANSFERS/FEES 1,379,102.00 (333,181.00) 1,045,921.00 GRAND TOTAL- EXPENDITURES \$24,930,865.54 \$ (265,464.67) \$24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)	XXXX				(550,780.73)
9760 EQUIPMENT 54,989.48 - 54,989.48 9765 SOFTWARE 7,252.20 - 7,252.20 TOTAL CAPITAL 62,324.26 - 62,324.26 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9990 OPERATING TRANS OUT-SUBSIDIES 292,161.00 (292,161.00) - 9994 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9992 OPERATING TRANSFERS-A87 COST 1,041,286.00 (41,020.00) 1,000.266.00 TOTAL TRANSFERS/FEES 1,379,102.00 (333,181.00) 1,045,921.00 GRAND TOTAL- EXPENDITURES \$ 24,930,865.54 \$ (265,464.67) \$ 24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)		TOTAL OTHER SERVICES & CHARGES	10,147,246.61	(30,280.96)	10,116,965.65
9765 SOFTWARE TOTAL CAPITAL 7,252.20 - 7,252.20 9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9990 OPERATING TRANS OUT-SUBSIDIES 292,161.00 (292,161.00) - 9994 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9992 OPERATING TRANSFERS-A87 COST 1,041,286.00 (41,020.00) 1,000,266.00 TOTAL TRANSFERS/FEES 1,379,102.00 (333,181.00) 1,045,921.00 GRAND TOTAL- EXPENDITURES \$ 24,930,865.54 \$ (265,464.67) \$ 24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)				-	
9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9990 OPERATING TRANS OUT-SUBSIDIES 292,161.00 (292,161.00) - 9994 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9992 OPERATING TRANSFERS-A87 COST 1,041,286.00 (41,020.00) 1,000,266.00 TOTAL TRANSFERS/FEES 1,379,102.00 (333,181.00) 1,045,921.00 GRAND TOTAL- EXPENDITURES \$ 24,930,865.54 \$ (265,464.67) \$ 24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)				-	
9993 OPERATING TRANS-PROJECTS 22,000.00 - 22,000.00 9990 OPERATING TRANS OUT-SUBSIDIES 292,161.00 (292,161.00) - 9994 OPERATING TRANS-DEV CENTER 23,655.00 - 23,655.00 9992 OPERATING TRANSFERS-A87 COST 1,041,286.00 (41,020.00) 1,000,266.00 TOTAL TRANSFERS/FEES 1,379,102.00 (333,181.00) 1,045,921.00 GRAND TOTAL- EXPENDITURES \$ 24,930,865.54 \$ (265,464.67) \$ 24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)	9765				,
9990 OPERATING TRANS OUT-SUBSIDIES 292,161.00 (292,161.00) 23,655.00 9994 OPERATING TRANS-DEV CENTER 23,655.00 (41,020.00) 1,000,266.00 9992 OPERATING TRANSFERS-A87 COST 1,041,286.00 (41,020.00) 1,000,266.00 TOTAL TRANSFERS/FEES 1,379,102.00 (333,181.00) 1,045,921.00 GRAND TOTAL- EXPENDITURES \$ 24,930,865.54 \$ (265,464.67) \$ 24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)		TOTAL CAPITAL	62,324.26		62,324.26
9990 OPERATING TRANS OUT-SUBSIDIES 292,161.00 (292,161.00) - - 23,655.00 - 23,655.00 - 23,655.00 - 23,655.00 - 1,041,286.00 (41,020.00) 1,000,266.00 - 1,045,921.00 - - - 23,655.00 - 1,000,266.00 - <	9993	OPERATING TRANS-PROJECTS	22,000.00	-	22,000.00
9992 OPERATING TRANSFERS-A87 COST TOTAL TRANSFERS/FEES 1,041,286.00 (333,181.00) (41,020.00) (333,181.00) 1,000,266.00 (333,181.00) GRAND TOTAL- EXPENDITURES LESS: SDSF CONTRIBUTION \$ 24,930,865.54 (265,464.67) \$ (265,464.67) (2,559,086.08) \$ 24,930,865.54 (265,464.67) \$ 24,930,866.08	9990	OPERATING TRANS OUT-SUBSIDIES	292,161.00	(292,161.00)	-
TOTAL TRANSFERS/FEES 1,379,102.00 (333,181.00) 1,045,921.00 GRAND TOTAL- EXPENDITURES \$ 24,930,865.54 \$ (265,464.67) \$ 24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)		OPERATING TRANS-DEV CENTER	23,655.00	•	23,655.00
GRAND TOTAL- EXPENDITURES \$ 24,930,865.54 \$ (265,464.67) \$ 24,665,400.87 LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)	9992			(41,020.00)	1,000,266.00
LESS: SDSF CONTRIBUTION (2,679,512.00) 120,425.92 (2,559,086.08)		TOTAL TRANSFERS/FEES	1,379,102.00	(333,181.00)	1,045,921.00
		GRAND TOTAL- EXPENDITURES	\$ 24,930,865.54	\$ (265,464.67)	\$ 24,665,400.87
NET TOTAL- EXPENDITURES \$ 22,251,353.54 \$ (145,038.75) \$ 22,106,314.79					(2,559,086.08)
		NET TOTAL- EXPENDITURES	\$ 22,251,353.54	\$ (145,038.75)	\$22,106,314.79

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November 14, 2013

TO:

Eric R. DeLong

Deputy City Manager

FROM:

Geri D. Eye, CPA

Utility Financial Officer

SUBJECT:

2013 WATER RATE STUDY TASK #4

FY13 OPERATING EXPENSES - WATER PUMPING FACILITIES

The attached schedule allocates the integrated and non-integrated adjusted expenses for operating and maintaining Coldbrook Distribution (4322) in FY13 to the system pumping stations based on energy costs. The operating expenses consist of direct labor, utilities, operating and maintenance supplies, repairs and maintenance, and equipment rental.

Attachment

GDE:ss

ALLOCATION OF COLDBROOK PUMPING TO WATER PUMPING FACILITIES

					EXPENDITURE ALLOCATION				
STATION	EN	ERGY COST	PERCENT	ACTUAL		Α	DJUSTED		
ALGER	\$	56,459	4.11%	\$	94,744	\$	70,987		
BOOSTER A		8,082	0.59%		13,562		10,162		
BOOSTER D		20,895	1.52%		35,064		26,272		
BRISTOL		24,044	1.75%		40,348		30,231		
COLDBROOK		321,554	23.39%		539,601		404,294		
COVELL		36,441	2.65%		61,152		45,818		
EAST PARIS		180,877	13.15%		303,530		227,420		
FRANKLIN		383,300	27.88%		643,217		481,930		
LEFFINGWELL		2,078	0.15%		3,487		2,613		
LIVINGSTON		192,531	14.00%		323,087		242,073		
WILSON		91,076	6.62%		152,835		114,511		
BURTON		29,073	2.11%		48,787		36,554		
DEAN LAKE		28,611	2.08%		48,012		35,973		
TOTAL	\$	1,375,021	100.00%	\$	2,307,426	\$	1,728,838		



October 29, 2013

TO:

Geri Eve

Utility Financial Officer

FROM:

Scott Buhrer

Chief Financial Officer

SUBJECT:

2013 WATER RATE STUDY TASK #5

KNOWN COST ADJUSTMENTS

Known cost adjustments by which to adjust FY13 operating costs are listed below.

Object Level 3 - 7060, 7020, 7040, 7055, 7025, 7045, 7050, 7030, 7035, 7190

The wage increase factor to translate FY2013 actual costs to estimated calendar 2014 will be 0.0%. Collective bargaining has not concluded and therefore, at this time there is not a known cost increase for wages.

Object Level 3 - 8140/8355/9990

Adjust FY2013 actual cost to reflect adjustments in charges for central services rendered by the Information Technology Fund, the Insurance Payment Fund and the General Operating Fund.

Object Level 3 - 7105

Increase FY2013 actual FICA expense by 0.0% consistent with the known wage impacts.

Object Level 3 - 7110

The Trend Report is not completed at this time; however, we anticipate favorable results on rates. Although health care costs have been trending higher, the anticipation of favorable cost trends and three-year smoothing has limited the projected increase in health insurance to 4.45%. Increase FY2013 health insurance actual by 4.45% to reflect these anticipated rate changes.

Object Level 3 - 7115

The factor to establish calendar year 2014's retiree health care cost is 2.42%. Increase the total of fiscal year 2013's retiree health care by this percent to establish the cost for calendar year 2014.

Object Level 3 - 7120

The pension expense factor to translate FY2013 actual costs to estimated calendar 2014 will be 0.0%. Had the pension system achieved rates of return consistent with actuarial assumptions, a 16.56% increase in general pension rates would have been projected. However, the pension system achieved superior rates of return that were far in excess of the actuarial assumptions. Therefore, no cost increase in pension expense is being projected for calendar year 2014.

Object Level 3 - 9990

Decrease FY2013 actual Operating Transfers Out-Subsidies expense by \$292,161 to account for the one-time nature of the 311 Call Center Fund contributions for development.



November 12, 2013

TO:

Geri D. Eye, CPA

Utility Financial Officer

FROM:

Joellen C. Thompson, PE/

Water System Manager

SUBJECT: 2013 WATER RATE STUDY TASK #5

KNOWN COST ADJUSTMENTS

Known cost adjustments by which to adjust FY13 operating costs are listed below:

ACCOUNT User Code	DESCRIPTION	<u>AMOUNT</u>
4311-8180	Utilities Competitive Assessment Project - Phases 1-3	\$196,400.00
4312-8140	Cayenta Customer Information System	\$284,011.00
4322-xxxx	Elevated Storage Tank Facility Rentals	(\$550,780.73)
4322-9210	Consumers Energy Efficiency Program	(\$19,655.78)
4342-9210	Consumers Energy Efficiency Program	(\$42,231.53)



November 14, 2013

TO:

Eric R. DeLong

Deputy City Manager

FROM:

Geri D. Eye, CPA

Utility Financial Officer

SUBJECT:

2013 WATER RATE STUDY TASK #6

The Water Supply System Fund's revenue and volumes by governmental unit for the year ending June 30, 2013, are disclosed on the attached page. In addition, actual volume comparisons for the past five (5) years by governmental unit are included herein.

Attachments

GDE:ss

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND TASK NO. 6

DETERMINE WATER VOLUME AND REVENUE BY GOVERNMENTAL ENTITY FOR THE YEAR ENDED JUNE 30, 2013:

	SALES REVENUE				3 YR AVE VOL BILLED
RETAIL:	A		В		(GALLONS)
CITY OF GRAND RAPIDS (1) CITY OF WALKER CITY OF KENTWOOD CASCADE TOWNSHIP GRAND RAPIDS TOWNSHIP TALLMADGE TOWNSHIP	\$ 24,197,181.13 3,210,338.89 4,436,881.63 3,127,219.00 2,334,744.87 119,782.38		39,000.00 16,704.00		6,472,647,456 893,185,304 1,305,755,924 629,273,700 516,336,172 18,493,552
SUB-TOTAL RETAIL (2)	\$ 37,426,147.90	\$	55,704.00		9,835,692,108
WHOLESALE:					
CITY OF E. GRAND RAPIDS OTTAWA CO. (3) ADA TOWNSHIP	\$ 963,715.95 1,451,846.14 1,317,290.41		5,760.00		455,223,824 828,240,952 487,843,356
SUB-TOTAL WHOLESALE	\$ 3,732,852.50	\$	5,760.00		1,771,308,132
TOTAL	\$ 41,159,000.40	\$	61,464.00		11,607,000,240
REVENUE CLASSIFICATION:					
A) 4311 - 642011 RETAIL METAIL	S			37,412,223.94 3,732,852.50 13,923.96	
				SUB-TOTAL	\$ 41,159,000.40
B) 4311 - 607048 FIRE HYDRA	ANT BILLINGS				61,464.00
				TOTAL	\$ 41,220,464.40

⁽¹⁾ THE VOLUME & DOLLAR AMOUNT FOR THE CITY OF WYOMING ARE INCLUDED IN THE GRAND RAPIDS TOTALS.

⁽²⁾ A REVENUE ACCRUAL OF (\$1,553,578) HAS BEEN PRORATED TO ALL RETAIL CUSTOMER COMMUNITIES TO ACCRUE BILLINGS FROM THE LAST READING DATE THROUGH JUNE 30, 2013.

⁽³⁾ OTTAWA COUNTY RATES ARE CALCULATED BASED ON MOST RECENT FISCAL YEAR BILLED VOLUME PER CONTRACT.

W-22

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND 2013 RATE STUDY TASK NO. 6

VOLUME COMPARISONS FOR FIVE (5) YEARS BY GOVERNMENTAL UNIT * VOLUME = 1,000 GALLONS

MUNICIPALITY	FY09 VOL BILLED	FY VOL BILLED	10 % CHANGE	FY VOL BILLED			FY12 FY13 VOL BILLED % CHANGE VOL BILLED % CHANG		3 % CHANGE	FY09 - FY13 % CHANGE	
GRAND RAPIDS	6,729,621	6,488,180	-3.59%	6,225,309	-4.05%	6,354,409	2.07%	6,838,225	7.61%	1.61%	
WALKER	953,606	875,586	-8.18%	850,755	-2.84%	866,427	1.84%	962,373	11.07%	0.92%	
KENTWOOD	1,198,808	1,164,972	-2.82%	1,214,620	4.26%	1,284,088	5.72%	1,418,559	10.47%	18.33%	
CASCADE TWP	655,587	576,850	-12.01%	581,868	0.87%	599,311	3.00%	706,642	17.91%	7.79%	
GRAND RAPIDS TWP	527,389	479,671	-9.05%	455,087	-5.13%	493,252	8.39%	600,669	21.78%	13.89%	
TALLMADGE TWP	20,407	17,420	-14.64%	17,173	-1.42%	18,149	5.68%	20,159	11.07%	-1.22%	
EAST GRAND RAPIDS	438,786	418,797	-4.56%	449,849	7.41%	454,722	1.08%	461,100	1.40%	5.09%	
OTTAWA COUNTY	680,543	706,518	3.82%	666,164	-5.71%	763,172	14.56%	828,241	8.53%	21.70%	
ADA TWP	523,082	479,072	-8,41%	480,928	0.39%	495,797	3.09%	486,804	-1.81%	-6.94%	
TOTAL	11,727,829	11,207,066	-4.44%	10,941,753	-2.37%	11,329,327	3.54%	12,322,772	8.77%	5.07%	
VOLUME PUMPED % BILLED TO PUMPED	13,172,000 89.0%	12,480,000 89.8%		12,488,000 87.6%		13,176,000 86.0%		13,438,000 91.7%			
GRAND RAPIDS VOLUME COMPARED TO CUSTOMER COMMUNITIES											
VOLUME = 1,000 GALLONS	FY09 % OF TOTAL		10 % OF TOTAL	FY VOL BILLED		FY VOL BILLED		FY1 VOL BILLED	3 % OF TOTAL		
GRAND RAPIDS	57.38%	6,488,180	57.89%	6,225,309	56.89%	6,354,409	56.09%	6,838,225	55.49%		
CUSTOMER COMMUNITIES	42.62%	4,718,886	42.11%	4,716,444	43.11%	4,974,918	43.91%	5,484,547	44.51%		
TOTAL	100.00%	11,207,066	100.00%	10,941,753	100.00%	11,329,327	100.00%	12,322,772	100.00%		

^{*} Volumes were restated from previous Rate Studies to reflect actual billings without adjustment for accrued revenues.

CITY OF GRAND RAPIDS, MICHIGAN WATER RATE STUDY WATER SUPPLY SYSTEM FUND TASK NO. 7

OPERATING REVENUES OTHER THAN FROM SALES OF WATER:

4311-451006 4311-476012 4311-607001 4311-607033 4311-607051 4311-607052 4311-642009 4311-642024 4311-672002	CONTRACTOR UNDERGROUND LICENSE TAPPING PERMITS MISCELLANEOUS SERVICE FEES MATERIAL - SERVICES SERVICES FOR CONTRACTORS INSPECTION FEES - UTILITIES METER SETTING FEES SALE OF SCRAP MATERIAL UNMETERED WATER PENALTIES ON SPECIAL ASSESSMENTS	\$ 6,840.00 7,200.00 493,113.47 3,139.47 89,333.71 28,510.00 37,610.00 25,606.07 91,622.49 15,126.59 798,101.80
CREDIT: UNDER	UTILIZATION OF PENALTY CREDIT FROM PREVIOUS YEAR	\$ 321,999.00
OTHER OPERAT		
CAPITAL CONTR	IBUTION & LAKELINE CREDIT	
4311-607051 4311-607053	WATER FRONT FOOTAGE INTEGRATED WATER CONNECTION	\$ 147,276.00 803,059.48
		\$ 950,335.48
OFFSETTING CR	EDIT TO CUSTOMER ACCOUNTING ACTIVITY EXPENSES:	
4311-699001	BILLABLE EXPENSE - SEWAGE DISPOSAL SYSTEM **	\$ 2,679,512.00

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.



October 31, 2013

TO:

Geri D. Eye, CPA

Utility Financial Officer

FROM:

Joellen C. Thompson, P.E. Joelles & Horper

Water System Manager

SUBJECT:

2013 WATER RATE STUDY - TASK #8

Although we continue to reduce expenditures, no significant changes in operating levels are anticipated to take effect by January 1, 2014, which would require adjustments to operating costs for the test period.

JCT



October 31, 2013

TO:

Geri D. Eye, CPA

Utility Financial Officer

FROM:

Joellen C. Thompson, P.E. Julia C. Hompson, Water System Manager

Water System Manager

SUBJECT:

2013 WATER RATE STUDY - TASK #9

No significant changes in water revenues are anticipated to take effect by January 1, 2014, which would require an adjustment to operating revenue estimates as a whole.

JCT



DATE: November 7, 2013

TO: Geri Eye

Utility Finance Officer

FROM: Wayne Jernberg, P.E.

Assistant Water System Manager

SUBJECT: 2013 WATER RATE STUDY- TASK #10

The following are major water system projects (greater than \$100,000) that for rate study purposes should be considered operative as of January 1, 2014.

<u>Description</u>	Location	Proj. Code	Cost
Patterson Elev. Storage Tank	Kentwood	216981-531	\$ 418,076
		221711-520	3,427,445
Taylor & Grove	Grand Rapids	221205-510	210,000
		228022-510	501,727
		221930-531	1,234,273
LMFP – Conc. Rest. Phases 7&8	Integrated	221714-510	166,359
		221714-520	46,891
		221244-531	50,450
		221710-520	590,000
Elmridge – Westwinde to 3 Mile	Walker	221327-510	94,444
	Grand Rapids	221327-510	105,556
Cherry – Eastern to Hollister	Grand Rapids	228057-510	113,406
Jefferson – Fulton to Cherry	Grand Rapids	221214-510	425,273
Kraft – 60 th to 56 th	Cascade	Contribution	355,429
Lake Mich. Dr Seward to National	Grand Rapids	221305-510	299,100

WJ

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND TASK NO. 11

"COMPUTE ACCUMULATED COST, DEPRECIATION AND DEPRECIATION EXPENSE AS OF JUNE 30, 2013"

INTEGRATED SYSTEM

	ORIGINAL	ORIGINAL ACCUMULATED	
	COST	DEPRECIATION	EXPENSE
LAND	\$ 2,507,974	\$ -	\$ -
LAND IMPROVEMENTS	1,987,789	1,296,304	55,528
BUILDINGS & STRUCTURES	46,991,540	21,779,149	872,225
STORAGE	7,584,993	5,321,656	208,204
PROCESS EQUIPMENT	58,083,527	32,007,219	1,773,696
AUXILIARY EQUIPMENT	14,701,826	12,309,601	273,675
METERS	7,375,481	7,375,481	=
MACHINERY & EQUIPMENT	2,961,961	2,596,158	104,331
OFFICE EQUIPMENT & FURNITURE	622,184	622,184	=
WATERMAINS	55,592,968	17,297,693	741,239
	\$ 198,410,243	\$ 100,605,445	\$ 4,028,898

NON-INTEGRATED SYSTEM

	ORIGINAL ACCUMULATED			DEPRECIATION			
		COST		DEPRECIATION			EXPENSE
LAND	\$	1,737,108	-	\$ -	-	\$	-
LAND IMPROVEMENTS		1,204,988		821,209			41,327
BUILDINGS & STRUCTURES		11,381,293		3,183,801			246,029
STORAGE		9,461,759		4,934,271			213,078
PROCESS EQUIPMENT		5,117,329		2,650,086			132,794
AUXILIARY EQUIPMENT		5,080,147		2,057,072			221,112
MACHINERY & EQUIPMENT		2,257,526		2,142,548			52,779
OFFICE EQUIPMENT & FURNITURE		533,805		468,376			24,410
WATERMAINS - GRAND RAPIDS		127,121,004		28,548,129			1,625,485
WATERMAINS - WALKER		21,900,956		6,361,813			292,012
WATERMAINS - KENTWOOD		24,919,270		7,006,517			329,010
WATERMAINS - CASCADE TWP		20,150,425		5,121,490			269,889
WATERMAINS - GRAND RAPIDS TWP		17,575,781		3,789,699			229,993
WATERMAINS - TALLMADGE TWP		2,014,737		306,690	_		26,863
	\$	250,456,128		\$ 67,391,701	_	\$	3,704,781
TOTAL	\$	448,866,371		\$ 167,997,146		\$	7,733,679

SOURCE: GENERAL LEDGER, AS ADJUSTED, FOR JUNE 30, 2013.

TASK 12A	DETERMINE WORKING CAPITAL NEEDS FOR MATERIALS AND S	UPPLIES ON HAND.
	MATERIALS AND SUPPLIES INVENTORY AS OF JUNE 30, 2013:	\$ 1,652,564

TASK 12B DETERMINE WORKING CAPITAL NEEDS FOR PREPAYMENT OF OPERATING COSTS.

NO REQUIREMENT FOR PREPAYMENT OF OPERATING COSTS IS CALLED FOR IN THE ORDINARY CYCLE OF BUSINESS.

TASK 12C DETERMINE CASH WORKING CAPITAL NEEDS & DETERMINE TOTAL WORKING CAPITAL NEEDS.

MINIMUM CASH WORKING CAPITAL IS DEFINED AS THE SUM OF 90 DAYS ADJUSTED OPERATING EXPENSES.

ADJUSTED CURRENT ANNUAL EXPENSES = \$22,106,315 @ 90/365 = \$5,450,872

TOTAL WORKING CAPITAL NEEDS CONSIST OF THE FOLLOWING:

12A	INVESTMENT IN INVENTORY	\$ 1,652,564
12B	PREPAYMENT OF OPERATING EXPENSES	-
12C	90 DAY OPERATING EXPENSES	5,450,872
		\$7,103,436

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DATE: November 4, 2013

TO: Geri Eye

Utility Financial Officer

FROM: Wayne Jernberg, P.E.

Assistant Water System Manager

SUBJECT: 2013 WATER RATE STUDY- TASK #13

In 2013, several existing zonegated facilities received improvements and new zonegated facilities were established within the City of Grand Rapids Water System. The existing zonegating maps, the Zonegating Cross Reference List and the Joint Use List were all reviewed. From that review, the following are recommended changes for zonegating of the Water System facilities for the 2013 Water Rate Study:

- 1. Dean Lake Service Center Improvements
 - a. No changes in percentages and allocations should follow those in Zonegated sections W47 and W48.
- 2. Livingston Pump Station Power Subyard Improvements
 - a. No changes in percentages and allocations should follow those in Zonegated section W31.
- 3. Patterson Elevated Storage Tank and Supply Watermain
 - a. This site is new this year and has been assigned Zonegated section W123A. The percentage of allocation for this site should follow those in Zonegated sections W123 and W21.
- 4. Covell Reservoir and Pump Station
 - a. This facility is not to be zonegated this year. In 2015, an update to the Comprehensive Master Plan will include a review of flow data and our zonegated sections. At that time, a decision will be made on whether to zonegate this facility in the future.
- 5. Leonard Elevated Storage Tank
 - a. This facility is to be zonegated and the allocations should follow those in Zonegated sections W44 and W39.

WJ



DATE:

November 14, 2013

TO:

Eric R. DeLong

Deputy City Manager

FROM:

Geri D. Eye, CPA

Utility Financial Officer

SUBJECT:

2013 SEWER RATE STUDY TASK #13

ZONEGATING & JOINT USE ALLOCATION METHODS

Lengths and costs of all interceptor and trunk sewer mains that are zonegated were prorated according to the percentage of flow from contributing communities per the "Report on Sewage Flow Allocation and Zonegating of the Sewage System for Fiscal Year 2002" (Black & Veatch, Ltd. Zonegating Report dated September 2003). Jointly used pumping stations were also prorated based on the B&V zonegating report.



DATE:

October 24, 2013

TO:

Geri Eye

Utility Financial Officer

FROM:

Wayne Jernberg, P.E.

Assistant Water System Manager

SUBJECT:

2013 WATER RATE STUDY- TASK #14

Base maps and zonegating maps for the water rate study, adjusted and revised to reflect changes are presently being updated to reflect 2013 zonegating information. The water maps will be completely updated by the end of calendar year 2013. All 2013 zonegating work papers and maps are on file at the Water Administration Building located at 1900 Oak Industrial Dr. NE.

WJ

wrs\wtask14 2013

COMPUTE CONSTRUCTION COST RATE BASE (DEPRECIATED PLANT, PLUS WORKING CAPITAL, LESS CONTRIBUTIONS BY OTHERS).

ORIGINAL CONSTRUCTION COST	- TASK #10 - TASK #11	\$ 7,155,705 448,866,371	\$ 456,022,076
LESS: ACCUMULATED DEPRECIATION	- TASK #11 - TASK #10	\$ 167,997,146 	<u>(167,997,146)</u> 288,024,930
WORKING CAPITAL REQUIREMENT	- TASK #12	\$ 7,103,436	7,103,436 295,128,366
CONTRIBUTIONS BY OTHERS LESS: AMORTIZATION	- TASK #21	\$ 85,286,305 (27,487,733)	(57,798,572)
CONSTRUCTION COST RATE BASE			\$ 237,329,794



DATE:

October 24, 2013

TO:

Eric DeLong

Deputy City Manager

FROM:

Geri D. Eve. CPA

Utility Financial Officer

SUBJECT:

2013 WATER RATE STUDY TASK #15A

INTEGRATED WATER CONNECTION FEES

Attached is the Integrated Water Connection Fee Schedule as currently provided for in Chapter 26 of the City Code, with the addition of rates to be effective on January 1, 2014. The City Commission on June 27, 2000 established fees through calendar year 2004. Beginning January 1, 2005, the integrated water connection fees are to be calculated on a yearly basis as part of the annual Water/Sewer Rate Study. The Consumer Price Index used to determine rates effective January 1, 2014 is as follows:

August, 2012 Index	230.379
August, 2013 Index	233.877
Increase (decrease)	3.498
Percentage increase (decrease)	1.52%

GDE\lw

Attachment

Section 2.35 <u>Integrated Water Connection Fee Schedule</u>

When a property owner or user is requested or required to connect to the System and has not previously paid or been assessed a connection fee, the following connection fee schedule shall apply:

Integrated Connection Base Fee Schedule

Water Meter Size		
(inches)	<u>1/01/13</u>	<u>1/01/14</u>
2/4 1	¢ 2.020	¢ 2.072
3/4 or less	\$ 2,830	\$ 2,873
1	4,730	4,798
1 ½	9,420	9,567
2	15,080	15,313
3	33,030	33,528
4	59,430	60,333
6 and over	132,080	134,083

Except as otherwise provided in the immediately succeeding paragraph, the foregoing integrated water connection base fee schedule for single-family and multi-family residential dwelling units shall be adjusted upward and downward as follows: A single-family residential dwelling unit located on a parcel containing twenty thousand (20,000) square feet shall pay the applicable integrated connection fee in accordance with the forgoing schedule. determining the square footage of a residential parcel for the purposes of determining the appropriate integrated connection fee, parcel size may be adjusted downward to take into consideration such things as wetlands, lakes, streams and other unusual characteristics of the parcel in accordance with policies approved from time to time by the Utility Advisory Board. To the extent the size of a parcel, as adjusted, is greater than or less than twenty thousand (20,000) square feet, one-half the applicable integrated connection fee will increase or decrease by the same percentage increase or decrease in the parcel above or below twenty thousand (20,000) square feet. In the case of multi-family residential dwellings, in order to determine the size of the parcel assigned to each dwelling unit for purposes of calculating the integrated connection fee to be paid by each multi-family residential dwelling unit, the total square footage of the parcel, as adjusted, on which the multi-family residential dwelling is located shall be divided by the total number of residential units. Notwithstanding any other provision in this subsection, the integrated connection fee for a single-family residential dwelling unit or multi-family residential dwelling unit shall not exceed four and one-half times the applicable base integrated connection fee set forth in foregoing schedule.

There shall be no upward adjustment in the integrated water service connection fee payable for a single-family residential dwelling unit connecting to the Water System if (a) each of the following conditions are met (1) a building permit shall have been obtained, (2) the dwelling unit shall have been constructed, and (3) a certificate of occupancy shall have been issued prior to January 1, 2000 or (b) local building permit fees have been paid to the local governmental unit prior to January 1, 2000 for a single-family residential dwelling unit to be

constructed on or after January 1, 2000. When connecting to the Water System, Users living in or owning such single-family residential dwelling units shall pay the applicable base integrated connection fee set forth in the Integrated Connection Base Fee Schedule adjusted downward, if applicable, in accordance with the immediate preceding paragraph.

Effective January 1, 2005 and January 1st of every year thereafter, the Integrated Water Connection Base Fees shall be adjusted by a percentage, which is determined by the annual change in the Consumer Price Index (the "index") calculated as follows:

- (1) The Consumer Price Index shall be that Index referred to as the Consumer Price Index, US City Average, All Urban Consumers, published by the U.S. Department of Labor-Bureau of Statistics ((1982-84)=100). In the event the method of determining the Index is substantially altered, the basis for determining the annual change thereafter shall be the Index which is most comparable to the Index described above.
- (2) For the purpose of computing the percentage change each calendar year, the Index for the month of August for the prior calendar year shall be subtracted from the Index for the immediately-preceding August. The result so obtained (if positive) shall be divided by the Index for the month of August for the prior calendar year to obtain the percentage increase which shall be applied to the then current Integrated Water Connection Base Fee Schedule to determine the new calendar year schedule.

The foregoing Integrated Connection fee is due and payable at the time a User receives a permit to connect to the Water System. A permit issued by the City to connect to the Water System shall expire one hundred eighty (180) days from the date the permit was issued.

The user receiving services who applies for a larger water meter than the one presently in service shall pay an Integrated Connection Fee which is the difference in cost between the meter size in service and the one applied for in accordance with the Integrated Connection Fee in effect at the time of application. No credit or rebate shall be made in the case of application for a smaller meter size.

Existing commercial and industrial customers may request the installation of an additional meter to measure water used solely for irrigation purposes. There shall be no Integrated Connection Fee for the additional meter provided combined maximum capacity as defined by the American Water Works Association Standards C700-90 and C702-92, as amended, does not exceed the maximum capacity of the original meter. If the original maximum capacity is exceeded, the customer shall pay as an Integrated Connection Fee the difference between the fee for the original meter and what the fee would be if the maximum capacities of all meters were totaled. The additional Integrated Connection Fee shall be based upon the fees in effect at the time of installation of the additional meter.

INCLUDE MAJOR PROJECT COST FOR SYSTEM IMPROVEMENTS (NON-INTEGRATED)

THE ESTIMATED TOTAL PROJECT COST FOR RECOMMENDED WATER SYSTEM IMPROVEMENTS ARE SUMMARIZED IN THE FOLLOWING TABLE.

ITEM NO.	DESCRIPTION	ESTIMATED COST	BUDGET YEAR
1	EAST PARIS SERVICE CENTER IMPROVEMENTS	3,826,500	2013
2	COLDBROOK SCADA IMPROVEMENTS	2,200,000	2014
3	ESCSO #21	700,000	2014
4	ESCSO #22	650,000	2014
5	MAYNARD - VET'S DR TO 3200' NORTH	575,000	2014
6	FOUR MILE ROAD WATER MAIN AND ELEVATED TANK	8,245,000	2015
7	FRANKLIN PS - VFD'S AND NEW MOTOR STARTERS	1,000,000	2015
8	ESCSO #27	1,205,000	2015
9	WILSON PUMP STATION IMPROVEMENTS	790,000	2015
10	LIVINGSTON DISCHARGE LINE	10,970,000	2015
11	ESCSO #28	1,800,000	2016
12	ADAMS/ALGER PRESSURE DISTRICT MODIFICATIONS	1,600,000	2016
13	GARFIELD AVENUE WATERMAIN IMPROVEMENTS	1,050,000	2017
14	CASCADE NORTH RIVER CROSSING	3,600,000	2018
		\$ 38,211,500	

NOTE: NONE OF THE PROJECTS ABOVE ARE INCLUDED IN RECOMMENDED REVENUE REQUIREMENTS FOR CALENDAR YEAR 2014. COSTS SHOWN ARE IN 2013 DOLLARS.

SOURCE: WAYNE JERNBERG, ASSISTANT WATER SYSTEM MANAGER, OCTOBER 2013

BONDS - PRINCIPAL & INTEREST PAYMENTS (SENIOR)

FISCAL						
YEAR ENDING	CASH BASIS					
JUNE 30,	PRINCIPAL	INTEREST	PRIN & INT			
2014	\$ 10,180,000	\$ 5,262,333	\$ 15,442,333			
2015	10,645,000	4,894,396	15,539,396			
2016	11,040,000	4,483,634	15,523,634			
2017	11,620,000	3,992,134	15,612,134			
2018	12,015,000	3,466,134	15,481,134			
2019	5,375,000	2,902,984	8,277,984			
2020	5,640,000	2,665,284	8,305,284			
2021	2,045,000	2,416,709	4,461,709			
2022	2,145,000	2,319,409	4,464,409			
2023	2,255,000	2,216,971	4,471,971			
2024	2,380,000	2,108,971	4,488,971			
2025	2,500,000	1,994,840	4,494,840			
2026	2,635,000	1,874,790	4,509,790			
2027	2,770,000	1,747,840	4,517,840			
2028	2,920,000	1,614,440	4,534,440			
2029	2,765,000	1,479,015	4,244,015			
2030	2,895,000	1,348,890	4,243,890			
2031	3,040,000	1,202,940	4,242,940			
2032	3,195,000	1,049,680	4,244,680			
2033	3,355,000	888,605	4,243,605			
2034	3,520,000	719,465	4,239,465			
2035	3,700,000	542,005	4,242,005			
2036	1,615,000	355,470	1,970,470			
2037	1,695,000	273,105	1,968,105			
2038	1,785,000	186,660	1,971,660			
2039	1,875,000	95,625	1,970,625			
	\$ 115,605,000	\$ 52,102,329	\$ 167,707,329			

DETERMINE WATER SYSTEM EQUITY IN THE CONSTRUCTION COST RATE BASE BY SUBTRACTING DEBT OUTSTANDING FROM THE TOTAL RATE BASE.

CONSTRUCTION COST RATE BASE - TASK NO. 15 \$ 237,329,794

LESS: BONDED INDEBTEDNESS - TASK NO. 17/20 (118,328,891)

NET WATER SYSTEM EQUITY \$ 119,000,903

CITY OF GRAND RAPIDS, MICHIGAN WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE OF RETURN ON EQUITY - TASK NO. 19

AT THE APRIL 5, 1977, COMMITTEE OF THE WHOLE MEETING, THE CITY COMMISSION DECIDED THE LEVEL OF RETURN ON WATER SYSTEM EQUITY. THE LEVEL DECIDED UPON WAS ONE PERCENT MORE THAN THE AVERAGE BOND BUYER'S INDEX OF MUNICIPAL BONDS FOR THE PREVIOUS TWELVE MONTH PERIOD.

BOND BUYER'S INDEX OF 20 MUNICIPAL BONDS

DATE	RATE	DATE	RATE
04-Oct-12	3.610%	04-Apr-13	3.960%
11-Oct-12	3.640%	11-Apr-13	3.930%
18-Oct-12	3.680%	18-Apr-13	3.890%
25-Oct-12	3.680%	25-Apr-13	3.900%
01-Nov-12	3.670%	02-May-13	3.770%
08-Nov-12	3.550%	09-May-13	3.670%
15- N ov-12	3.410%	16-May-13	3.610%
22-Nov-12	3.370%	23-May-13	3.700%
29-Nov-12	3.290%	30-May-13	3.840%
06-Dec-12	3.270%	06-Jun-13	3.930%
13-Dec-12	3.440%	13-Jun-13	4.160%
20-Dec-12	3.640%	20-Jun-13	4.370%
27-Dec-12	3.580%	27-Jun-13	4.630%
03-Jan-13	3.680%	04-Jul-13	4.390%
10-Jan-13	3.600%	11-Jul-13	4.550%
17-Jan-13	3.530%	18-Jul-13	4.520%
24-Jan-13	3.540%	25-Jul-13	4.770%
31-Jan-13	3.670%	01-Aug-13	4.700%
07-Feb-13	3.680%	08-Aug-13	4.730%
14-Feb-13	3.720%	15-Aug-13	4.800%
21-Feb-13	3.740%	22-Aug-13	4.910%
28-Feb-13	3.740%	29-Aug-13	4.960%
07-Mar-13	3.860%	05-Sep-13	5.030%
14-Mar-13	4.000%	12-Sep-13	4.930%
21-Mar-13	3.990%	19-Sep-13	4.660%
28-Mar-13	3.990%	26-Sep-13	4.530%
		52 WEEKS	3.989%

DETERMINE COMPOSITE RATE OF RETURN AND DOLLARS OF RETURN ON A CONSTRUCTION COST RATE BASE.

	RATE		RATE OF		R	ETURN ON
	BASE		RETURN		<u> IN</u>	VESTMENT
WATER SYSTEM EQUITY IN THE CONSTRUCTION						
COST RATE (CCR) BASE	\$ 119,000,903	@	4.989%	=	\$	5,936,955
WATER SYSTEM INDEBTEDNESS IN THE						
CCR BASE -1993 Bonds (Fixed Rate Conversion)	21,900,000	@	5.860%			1,283,340
-2000 Bonds	-	@	5.750%	=		-
-2005 Bonds	30,185,000	@	4.850%	=		1,463,973
-2009 Bonds (Amt in CCRB)	26,618,331	@	4.980%	=		1,325,593
-2010 Bonds (Refunded 2000 bonds)	31,825,000	@	4.590%	=		1,460,768
-2013 Bonds	3,385,000	@	2.760%	=		93,426
-2011-2012 DWRF Bonds (Amt in CCRB)	3,830,547	@	2.500%	=		95,764
-2012 DWRF Bonds (Amt in CCRB)	585,013	@	2.000%	=		11,700
LESS: INTEREST EARNED DURING THE TEST PERIOD)					
ON BOND RESERVE & REPLACEMENT ACCOUNTS						(6,604)
	\$ 237,329,794				\$	11,664,915
COMPOSITE RATE OF RETURN ON INVESTMENT			1,664,915 37,329,794	=		4.915%

W-42

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND CONSTRUCTION COST RATE BASE & RETURN ON INVESTMENT- TASK NO. 21- PART 1 FISCAL YEAR ENDED JUNE 30, 2013

PHYSICAL LOCATION

					RET	AIL				WHOLESALE		
DECODIDATION		ITEGRATED	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	CITY OF	COUNTY OF	ADA	TOT.1
DESCRIPTION COST		SYSTEM	GR 450 330 709	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	OTTAWA	TOWNSHIP	TOTAL
		199,263,943	\$ 150,339,798	\$ 22,594,072	\$ 26,937,896	\$ 20,145,462	\$ 15,998,459	\$ 2,014,737	\$ -	\$ -	\$ -	\$ 437,294,367
LESS: ACCUMULATED DEPRECIATION		100,605,445	39,888,613	6,527,174	7,553,234	5,120,167	3,461,974	306,690		-	-	163,463,297
NET BOOK VALUE	\$	98,658,498	\$ 110,451,185	\$ 16,066,898	\$ 19,384,662	\$ 15,025,295	\$ 12,536,485	\$ 1,708,047	\$ -	\$ -	\$ -	\$ 273,831,070
WORKING CAPITAL REQUIREMENT		3,336,910	2,451,041	348,992	391,044	292,733	221,911	16,338	18,895		25,572	7,103,436
CONTRIBUTIONS	<u> </u>	101,995,408	\$ 112,902,226	\$ 16,415,890	\$ 19,775,706	\$ 15,318,028	\$ 12,758,396	\$ 1,724,385	\$ 18,895	\$ -	\$ 25,572	\$ 280,934,506
CONTRIBUTIONS		242,824	20,586,793	17,209,824	16,520,894	16,289,248	12,368,515	2,014,737	-	•	-	85,232,835
LESS AMORTIZATION		(8,094)	(10,313,346)	(5,011,528)	(4,471,146)	(4,402,405)	(2,918,577)	(311,243)				(27,436,339)
CONSTRUCTION COST DATE DAGE	\$	(234,730)	\$ (10,273,447)	\$(12,198,296)	\$(12,049,748)	\$ (11,886,843)	\$ (9,449,938)	\$ (1,703,494)	\$ -	\$ -	\$ -	\$ (57,796,496)
CONSTRUCTION COST RATE BASE	<u> </u>	101,760,678	\$ 102,628,779	\$ 4,217,594	\$ 7,725,958	\$ 3,431,185	\$ 3,308,458	\$ 20,891	\$ 18,895	<u> </u>	\$ 25,572	\$ 223,138,010
RETURN ON INVESTMENT- TASK 4/5			114,302									\$ 114,302
RETURN ON INVESTMENT- TASK 20	4.915% \$	5,001,537	\$ 4,929,902	\$ 207,295	\$ 379,731	\$ 168,643	\$ 162,611	\$ 1,027	\$ 929	\$ -	\$ 1,257	\$ 10,852,932
COST	\$		\$ (5,310,924)	\$ 605,499	\$ 5,010,709	\$ 9,266,816	\$ 4,045,216	\$ 175,909	\$ 1,349,929	\$ -	\$ 3,584,555	\$ 18,727,709
LESS: ACCUMULATED DEPRECIATION		-	(2,730,132)	445,657	1,583,210	2,481,877	1,279,307	82,324	363,764	-	1,027,842	4,533.849
NET BOOK VALUE	\$	-	\$ (2,580,792)	\$ 159,842	\$ 3,427,499	\$ 6,784,939	\$ 2,765,909	\$ 93,585	\$ 986,165	\$ -	\$ 2,556,713	\$ 14,193,860
WORKING CAPITAL REQUIREMENT		*	-		-	-	-					
	\$	-	\$ (2,580,792)	\$ 159,842	\$ 3,427,499	\$ 6,784,939	\$ 2,765,909	\$ 93,585	\$ 986,165	\$ -	\$ 2,556,713	\$ 14,193,860
CONTRIBUTIONS		-	-	-	14,725	3,670	24,969	-	-	-	10,106	53,470
LESS AMORTIZATION					(14,153)	(3,528)	(23,999)				(9,714)	(51,394)
	\$	-	\$ -	\$ -	\$ (572)	\$ (142)	\$ (970)	\$ -	\$ -	\$ -	\$ (392)	\$ (2,076)
CONSTRUCTION COST RATE BASE	\$	_	\$ (2,580,792)	\$ 159,842	\$ 3,426,927	\$ 6,784,797	\$ 2,764,939	\$ 93,585	\$ 986,165	\$ -	\$ 2,556,321	\$ 14,191,784
RETURN ON INVESTMENT- TASK 19/20	\$	-	\$ (219,083)	\$ 13,569	\$ 290,912	\$ 575,961	\$ 234,716	\$ 7,944	\$ 83,716	\$ -	\$ 217,006	\$ 1,204,741
RETURN ON INVESTMENT- TASK 19/20		8.489%	8.489%	8.489%	8.489%	8.489%	8.489%	8.489%	8.489%	4.915%	8.489%	
TOTAL RETURN ON INVESTMENT	\$	5,001,537	\$ 4,710,819	\$ 220,864	\$ 670,643	\$ 744,604	\$ 397,327	\$ 8,971	\$ 84,645	\$ -	\$ 218,263	\$ 12,057,673

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND CONSTRUCTION COST & ACCUMULATED DEPRECIATION- TASK NO. 21- PART 2 FISCAL YEAR ENDED JUNE 30, 2013

CONSTRUCTION COST

					RETA	AIL				WHOLESALE		
		INTEGRATED	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	CITY OF	COUNTY OF	ADA	
COST CENTER	 AMOUNT	SYSTEM	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	OTTAWA	TOWNSHIP	TOTAL
BY PHYSICAL LOCATION- TASK 11 IN SERVICE- TASK 10		\$ 198,410,243 853,700	\$ 160,824,270 2,889.335	3 22 33 548 94,444	\$ 27,157,367 3,318,2 2 6	\$ 20,150,425	\$ 17,575,781 -	\$ 2,014,737	\$ -	\$ -	\$ -	\$ 448,866,371 7,155,705
PUMPING STATIONS: KNAPP SERVICE CENTER LIVINGSTON	\$ 3,368,233 2.090,217		(1,561,985) (383,722)	-	430,157 105,828	107,211 26,211	729,391 179,173	- -	-	-	295,226 72,510	-
FRANKLIN LEFFINGWELL	6,949,487 141,009		(3,962,042) (65,390)	-	1,623,122 18,008	866,115 4,488	392,368 30,535	-	602,799	-	477,638 12,359	-
BRISTOL SASEDARIO ROSTON	010 70 a 010 70 a 0.13 80 a 011 89 g		(00,050)	-	827,297	307/308	-	-	-	-	-	-
STORAGE TANKS: ELKS	236,335		(180,449)	174,815	-	-	-	5,634	-	-	•	
KNAPP	118,570 116,070		(21,767)	-	6,003	1,487 6,200	10,164	-	0.457	-	4,113	-
CAMBRIDGE PATTERSON	3.846.52*		(90,259)	-	74,602 [1,852,772]	6,200 1.802 772	-	-	9,457 -	-	-	-
WATERMAINS			(12,419,117)	196,764	1,892,328	5,573,105	1,126,263	170,275	737,673	-	2,722,709	-
ADJUSTED BY ZONEGATING		\$ 199,263,943	\$ 145,028,874	\$ 23,199,571	\$ 31,948,605	\$ 29,412,278	\$ 20,043,675	\$ 2,190,646	\$ 1,349,929	\$ -	\$ 3,584,555	\$456,022,076
LESS: ZONEGATING ADJUSTMENT		\$ -	\$ (5,310,924)	\$ 605,499	\$ 5,010,709	\$ 9,266,816	\$ 4,045,216	\$ 175,909	\$ 1,349,929	\$ -	\$ 3,584,555	\$ 18,727,709
PHYSICAL LOCATION		\$ 199,263,943	\$ 150,339,798	\$ 22,594,072	\$ 26,937,896	\$ 20,145,462	\$ 15,998,459	\$ 2,014,737	\$ -	\$ -	\$ -	\$437,294,367
				ACCU	MULATED DEPR	ECIATION						
BY PHYSICAL LOCATION- TASK 11 IN SERVICE- TASK 10		\$ 100,605,445	\$ 42,998,879	\$ 9,848,819	\$ 3,539,026	\$ 5,121,490	\$ 3,789,699	\$ 306,690	\$ -	\$ -	\$ -	\$ 167,997,146 -
PUMPING STATIONS: KNAPP SERVICE CENTER	\$ 1,896,468		(879,468)	-	242,198	60,365	410,680	-	-		166,225	-
LIVINGSTON FRANKLIN	795,782 2,655,832		(146,089) (1,514,142)	-	40,290 620,296	9,979 330,996	68,214 149,948	-	230,367	-	27,606 182,535	-
LEFFINGWELL	135,560 283,912		(62,865)	-	17,312	4,315	29,356	~	200,001	-	11,882	-
EAST MATS BYSTON	1 529,500 24,500		-	-	(737,061)	737,061	÷	•	-	-	-	-
STORAGE TANKS: ELKS	236,335		(180,449)	174,815	-	_	-	5,634	-	-	-	-
KNAPP	116,070		(21,309)	-	5,877	1,456	9,950	-	-	-	4,026	-
CAMBRIDGE PATTERSON	116,070 -		(90,259)	-	74,602	6,200	-	·	9,457 -	•	-	-
WATERMAINS			(2,943,817)	157,398	336,605	1,330,182	283,434	76,690	123,940		635,568	-
ADJUSTED BY ZONEGATING		\$ 100,605,445	\$ 37,158,481	\$ 6,972,831	\$ 9,136,444	\$ 7,602,044	\$ 4,741,281	\$ 389,014	\$ 363,764	\$ -	\$ 1,027,842	\$167,997,146
LESS: ZONEGATING ADJUSTMENT		\$ -	\$ (2,730,132)	\$ 445,657	\$ 1,583,210	\$ 2,481,877	\$ 1,279,307	\$ 82,324	\$ 363,764	\$ -	\$ 1,027,842	\$ 4,533,849
PHYSICAL LOCATION		\$ 100,605,445	\$ 39,888,613	\$ 6,527,174	\$ 7,553,234	\$ 5,120,167	\$ 3,461,974	\$ 306,690	\$ -	\$ -	\$ -	\$163,463,297

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND CONTRIBUTIONS & AMORTIZED CONTRIBUTIONS- TASK NO. 21- PART 3 FISCAL YEAR ENDED JUNE 30, 2013

CONTRIBUTIONS BY OTHERS

					RET	AIL				WHOLESALE		
		INTEGRATE	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	CITY OF	COUNTY OF	ADA	
COST CENTER	AMOUNT	SYSTEM	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	OTTAWA	TOWNSHIP	TOTAL
2012 RATE STUDY- LOCATION		\$	- \$ 20,300,056	\$ 17,194,574	\$ 16,520,894	\$ 16,256,535	\$ 11,772,846	\$ 2,014,737	\$ -	\$ -	\$ -	\$ 84,059,642
ADDITIONS: FRONT FOOT FEES			19.648	15,250	_	32.713	79,665	-	=		-	147,276
FIXED ASSET CONTRIBUTIONS			- 267,089	-	ii.		516,004	-	-	_	-	783,093
GRANT RECEIVED IN FY12		242,82	4									242.824
		242,82	4 20,586,793	17,209,824	16,520,894	16,289,248	12,368,515	2,014,737	-		-	85,232,835
PUMPING STATIONS:												
LEFFINGWELL	\$ 115,3	03		-	14,725	3,670	24,969	-	-	-	10,106	53,470
ADJUSTED BY ZONEGATING		242,82	4 20,586,793	17,209,824	16,535,619	16,292,918	12,393,484	2,014,737	-		10,106	85,286,305
LESS: ZONEGATING ADJUSTMENT			-	-	14,725	3,670	24,969	-		-	10,106	53,470
PHYSICAL LOCATION		242,82	4 20,586,793	17,209,824	16,520,894	16,289,248	12,368,515	2,014,737		-	-	85,232,835
				AMC	RTIZED CONTRI	RUTIONS						
				AMC	K TIZED CONTIN	BUTTONS						
2012 RATE STUDY-LOCATION		\$	- \$ 10,035,837	\$ 4,778,197	\$ 4,248,385	\$ 4,183,931	\$ 2,755,085	\$ 284,380	\$ -	\$ -	\$ -	\$ 26,285,815
CURRENT YEAR ADJUSTMENTS		8,09	4 277,509	233,331	222,761	218.474	163,492	26,863				1,150,524
PRIOR PERIOD ADJUSTMENT			•									-
		8,09	4 10,313,346	5,011,528	4,471,146	4,402,405	2,918,577	311,243	-	-	-	27,436,339
PUMPING STATIONS:						0.500					0.744	54.004
LEFFINGWELL	110,8	24	_		14,153	3,528	23,999		-		9,714	51,394
ADJUSTED BY ZONEGATING		8,09	4 10,313,346	5,011,528	4,485,299	4,405,933	2,942,576	311,243	-	-	9,714	27,487,733
LESS: ZONEGATING ADJUSTMENT				-	14,153	3,528	23,999	-	-	-	9,714	51,394
PHYSICAL LOCATION		8,09	4 10,313,346	5,011,528	4,471,146	4,402,405	2,918,577	311,243		-	-	27,436,339

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND

RECONCILIATION OF CONSTRUCTION COST & ACCUMULATED DEPRECIATION- PHYSICAL LOCATION & ZONEGATING FISCAL YEAR ENDED JUNE 30, 2013

CONSTRUCTION COST- BY PHYSICAL LOCATION

					RETA	ΔII				WHOLESALE		
		INTEGRATED	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	CITY OF	COUNTY OF	ADA	
COST CENTER	AMOUNT	SYSTEM	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	OTTAWA	TOWNSHIP	TOTAL
COST BY PHYSICAL LOCATION- TASK 11	71110011	\$ 198,410,243	5. 137, 496, UR.0	\$ 24 556 515	F 04 615(27)	\$ 20,150,425	\$ 17,575,781	\$ 2,014,737	\$ -	\$ -	\$ -	\$ 448,866,371
IN SERVICE- TASK 10		853,700	2,889,335	94,444	3,318,226	-		-		-	-	7,155,705
BRISTOL			(612,700)	612,700								-
EAST PARIS			(1,710,802)	240.000	1,710,802							*
BURTON			(219.892)	219,892	527,295							-
PATTERSON TANK WATERMAINS			(527,295)		527.295							•
LESS: WATERMAINS-TOTAL SUBS-HOM	IE COMM		(20,287,069)	(725,425)	(6,940,652)	(6,200)	(2,208,247)		_		_	(30,167,593)
ADD: WATERMAINS-TOTAL ADDS-HOM			6,913,263	491,505	3,402,954	1,237	630,925	_		_	_	11,439,884
TOTAL-PHYSICAL LOCATION COST	2 0011111	\$ 199,263,943	\$ 150,339,799	\$ 22,594,072	\$ 26,937,895	\$ 20,145,462	\$ 15,998,459	\$ 2,014,737	\$ -	s -	\$ -	\$ 437,294,367
TOTAL TITOICAL EGGATION GOOT		\$ 133,203,343	<u> </u>	\$ 22,004,012	\$ 20,557,055	₩ 20,143,402	\$ 15,550,155	Ψ 2,014,737				<u> </u>
				CONSTRU	CTION COST- ZO	NEGATING						
PUMPING STATIONS:				_						_		
KNAPP SERVICE CENTER	\$ 3,368,233		\$ (1,561,985)	\$ -	\$ 430.157	\$ 107,211	\$ 729,391	\$ -	\$ -	\$ -	\$ 295,226	\$ -
LIVINGSTON	2,090,217		(383,722)	-	105,828	26,211	179,173 392,368	-	600 700	-	72,510	*
FRANKLIN LEFFINGWELL	6,949,487		(3,962,042)	-	1,623,122	866.115 4.488	392,368	-	602.799	-	477,638 12,359	-
BRISTOL	141,009 612,700		(65,390)	-	18,008	4.400	30,535	-	-		12,359	
EAST PARIS	1,710,802		-		(324,264)	824,264			-			-
BURTON	219,892		_			024,204	_		-		_	
STORAGE TANKS:	210,002											
ELKS	236,335		(180.449)	174,815	_		_	5.634	-		_	-
KNAPP	118,570		(21,767)		6.003	1,487	10,164	0,00	-	-	4,113	
CAMBRIDGE	116,070		(90,259)		74,602	6,200	-		9,457	-		-
PATTERSON	3,845,521		-		(1,852,772)	1,852,772	-		-	-	-	-
WATERMAINS- ZONEGATED COST			954,690	430,684	5,430,025	5,578,068	2,703,585	170,275	737,673		2,722,709	18,727,709
TOTAL- ZONEGATED COST		\$ -	\$ (5,310,924)	\$ 605,499	\$ 5,010,709	\$ 9,266,816	\$ 4,045,216	\$ 175,909	\$ 1,349,929	\$ -	\$ 3,584,555	\$ 18,727,709
GRAND TOTAL- COST		\$ 199,263,943	\$ 145,028,875	\$ 23,199,571	\$ 31,948,604	\$ 29,412,278	\$ 20,043,675	\$ 2,190,646	\$ 1,349,929	\$ -	\$ 3,584,555	\$ 456,022,076
			400				704		×			
			ACC	CUMULATED DEF	RECIATION-BY F	PHYSICAL LOCAT	ION					
ACC DEPREC BY PHYSICAL LOCATION- TA	ASK 11	\$ 100,605,445	\$ 44,805,492	\$ 6,361,813	\$ 7,006,517	\$ 5.121,490	\$ 3,789.699	\$ 306,690	\$ -	\$ -	\$ -	\$ 167,997,146
BRISTOL			(253,912)	253,912								-
EAST PARIS			(1,529,808)		1,529,808							-
BURTON			(24,893)	24,893								-
WATERMAINS												
LESS: WATERMAINS-TOTAL SUBS-HON			(4,754,683)	(376,803)	(1,957,966)	(1,653)	(516, 265)	-	-	-	-	(7,607,370)
ADD: WATERMAINS-TOTAL ADDS-HOM		2 400 005 445	1,646,415	263,360	974,875	330	188,540	£ 200 coo		\$ -		3,073,520
TOTAL-PHYSICAL LOCATION ACC DEP	,	\$ 100,605,445	\$ 39,888,611	\$ 6,527,175	\$ 7,553,234	\$ 5,120,167	\$ 3,461,974	\$ 306,690	\$ -	<u>\$</u> -	\$ -	\$ 163,463,296
				ACCUMULATE	D DEPRECIATIOI	I ZONECATINO						
PUMPING STATIONS:				ACCOMULATE	D DEFNEUM HUI	LONLUATING						
KNAPP SERVICE CENTER	\$ 1,896,468		\$ (879,468)	\$ -	\$ 242,198	\$ 60,365	\$ 410,680	\$ -	\$ -	\$ -	\$ 166,225	\$ -
LIVINGSTON	795,782		(146,089)	-	40,290	9,979	68,214	-	-	-	27,606	~
FRANKLIN	2,655,832		(1,514,142)	-	620,296	330,996	149.948	-	230,367	-	182,535	*
LEFFINGWELL	135,560		(62,865)	-	17,312	4,315	29,356	-	-	-	11,882	-
OFSTOR	253 942		-		(707.004)	707.004	•		-	-	-	•
SASS PARIS	1,529,71% 30,293		-	-	(737,061)	737,061	-		-	-	-	-
809304	36,785		-		-	-			•	-	•	-
STORAGE TANKS:												
ELKS	236,335		(180.449)	174,815	-	-		- 5,634	-	-		•
KNAPP	116,070		(21,309)	-	5,877	1,456	9,950	-	0.457		4,026	-
CAMBRIDGE	116,070		(90,259)	-	74,602	6.200	-	-	9,457	Ē	•	-
PATTERSON WATERMAINS- ZONEGATED ACC DEP			164.449	270,842	1,319,696	1,331,505	611.159	76,690	123.940	-	635,568	4.533.849
TOTAL- ZONEGATED ACC DEP		-	\$ (2,730,132)	\$ 445,657	\$ 1,583,210	\$ 2,481,877	\$ 1,279,307	\$ 82,324	\$ 363,764	\$ -	\$ 1.027,842	s 4,533,849
GRAND TOTAL- ACC DEP		\$ 100,605,445	\$ 37,158,479	\$ 6,972,832	\$ 9,136,444	\$ 7,602,044	\$ 4,741,281	\$ 389,014	\$ 363,764	\$ -	\$ 1,027,842	\$ 167,997,145
GRAND TOTAL- AGG DEP		<u>↓ 100,000,445</u>	⊕ 37,130,479	\$ U,512,U3Z	\$ 3,130,444	3 1,002,044	3 4,741,201	3 305,014	J 303,104		¥ 1,021,04Z	₩ 101,331,143

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND ADJUSTED OPERATING EXPENSE ZONEGATED BY GOVERNMENTAL UNIT - TASK #22 FISCAL YEAR ENDED JUNE 30, 2013

	ADJUSTED								WHOLESALE			
COST CENTER	EXPENSE BY COST CENTER	INTEGRATED SYSTEM	CITY OF GR	CITY OF WALKER	CITY OF KENTWOOD	CASCADE TOWNSHIP	GR TOWNSHIP	TALLMADGE TOWNSHIP	CITY OF EAST GR	COUNTY OF OTTAWA	ADA TOWNSHIP	
FILTRATION PLANT	\$ 6.687,356	\$ 6,687,356										
PUMPING STATIONS: A. PRIMARY TRANSPORT B. INTERMEDIATE TRANSPORT	1,887,292 1,173,478	1,887.292	582,683	26,282	247,593	173,898	56,316	-	41,803	-	44,903	
WATERMAINS: A. PRIMARY TRANSPORT B. INTERMEDIATE TRANSPORT C. LOCAL DISTRIBUTION	291,672 1,493,979 4,044,284		149,889 558,688 2,981,365	28,628 310,210 313,796	52,798 257,562 273,879	30.879 217,613 215,722	12,813 114,469 247,510	650 23.978 12,012	6,606 105	- -	9,409 11.354	
RETAIL CUSTOMER METERING *	2,675,290		2,025,702	217,902	173,038	114,155	139,062	5,431				
SUBTOTAL OPERATING EXPENSE	18,253,351	8,574,648	6,298,327	896,818	1.004,870	752,267	570,170	42,071	48,514	-	65,666	
ENGINEERING SERVICES	1,048,076	492,343	361,639	51,492	57,697	43,191	32,742	2,411	2,788	-	3,773	
ADMINISTRATIVE EXPENSE	2,804,888	1,317,624	967,827	137,804	154,409	115,589	87,625	6,451	7,461		10,098	
TOTAL	\$ 22,106,315	\$ 10,384,615	\$ 7,627,793	\$ 1,086,114	\$ 1,216,976	\$ 911,047	\$ 690,537	\$ 50,933	\$ 58,763	\$ -	\$ 79,537	

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.

METHOD OF DISTRIBUTION

FILTRATION PLANTS		100.00%	100.00%									
PUMPING STATIONS												
A. PRIMARY TRANSPORT		100.00%	100.00%									
B. INTERMEDIATE TRANSPOR MEMO	Т	100.00%		49.655%	2.240%	21.099%	14.819%	4.799%		3.562%		3.826%
WATERMAINS TOTAL MILES:	1,164.84											
A. PRIMARY TRANSPORT		100.000%		51.389%	9.815%	18.102%	10.587%	4.393%	0.223%	2.265%		3.226%
MILES	58.28			29.95	5.72	10.55	6.17	2.56	0.13	1.32	-	1.88
B. INTERMEDIATE TRANSPOR	T	100.000%		37.396%	20.764%	17.240%	14.566%	7.662%	1.605%	0.007%		0.760%
MILES	298.50			111.63	61.98	51.46	43.48	22.87	4.79	0.02	-	2.27
C. LOCAL DISTRIBUTION		100.000%		73.718%	7.759%	6.772%	5.334%	6.120%	0.297%			
MILES	808.06			595.69	62.70	54.72	43.10	49.45	2.40	-	•	-
RETAIL CUSTOMER METERING (1)	100.000%		75.719%	8.145%	6.468%	4.267%	5.198%	0.203%			
NUMBER OF METERS	80,150.00			60,689.00	6,528.00	5,184.00	3,420.00	4,166.00	163.00			
ENGINEERING SERVICES (2)		100.000%	46.976%	34.505%	4.913%	5.505%	4.121%	3.124%	0.230%	0.266%		0.360%
ADMINISTRATIVE EXPENSE (3)		100.000%	46.976%	34.505%	4.913%	5.505%	4.121%	3.124%	0.230%	0.266%		0.360%

NOTES:

- (1) ALLOCATION BASED ON NUMBER OF METERS.
- (2) ALLOCATION BASED ON DIRECT OPERATING EXPENSE.
 (3) ALLOCATION BASED ON DIRECT OPERATING EXPENSE, ADJUSTED FOR ANY COST ASSIGNABLE EXCLUSIVELY TO GR OR RETAIL COMMUNITIES, IF APPLICABLE.

ASSIGN OTHER OPERATING REVENUES TO EACH GOVERNMENTAL ENTITY. *

BASIS OF ALLOCATION: RETAIL BILLINGS BY GOVERNMENTAL ENTITY - TASK NO. 6 & 7

	 RETAIL BILLINGS	PERCENTAGE OF TOTAL	ALI	_OCATION *
CITY OF GRAND RAPIDS	\$ 24,197,181	64.6532%	\$	724,182
CITY OF WALKER	3,210,339	8.5778%		96,080
CITY OF KENTWOOD	4,436,882	11.8550%		132,788
CASCADE TOWNSHIP	3,127,219	8.3557%		93,592
GRAND RAPIDS TOWNSHIP	2,334,745	6.2383%		69,875
TALLMADGE TOWNSHIP	 119,782	0.3200%		3,584
	\$ 37,426,148	100.0000%	\$	1,120,101

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.

CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND ASSIGN DEPRECIATION EXPENSE TO CUSTOMER COMMUNITIES- TASK NO. 24 FISCAL YEAR ENDED JUNE 30, 2013

					RET	AIL				WHOLESALE		
	DEPRECIATION	INTEGRATED	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	CITY OF	COUNTY OF	ADA	
COST CENTER	EXPENSE	SYSTEM	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	OTTAWA	TOWNSHIP	TOTAL
BY PHYSICAL LOCATION- TASK 11		\$ 4,028,898	\$ 2,504.035	\$ 320.329	\$ 353,672	\$ 269,889	\$ 229,993	\$ 26,863	\$ -	\$ -	\$ -	\$ 7,733,679
IN SERVICE- TASK 10		24,391	38,524	1,259	96,443	-	-					160,617
PUMPING STATIONS:												
KNAPP SERVICE CENTER	\$ 92,165		(42,740)	-	11,770	2,934	19,958	-		-	8,078	-
LIVINGSTON	51,792		(9,508)	-	2,622	649	4,440	-	-	-	1,797	•
FRANKLIN	208,505		(118,873)	*	48,698	25,986	11,772	-	18,086	-	14,331	-
LEFFINGWELL	908		(422)	-	116	29	197	-	-	-	80	-
BRISTOL	15,870											-
EAST PARIS	24,662		-	-	(11,882)	11,882	•	-	-	-	-	-
BURTON	12,447											
STORAGE TANKS:												
ELKS	-		-	-	-	-	-	-	-	-	-	-
KNAPP	-		-	-	-	-	-	•	-	-	-	-
CAMBRIDGE	-		-	-	-	-	-	-	-	-	-	-
PATTERSON	96,443		-	-	(46,466)	46,466	-		~	-	-	-
WATERMAINS			(165,166)	2,624	25,036	74,292	15,017	2,270	9,624	-	36,303	-
ADJUSTED BY ZONEGATING		4,053,289	2,205,850	324,212	480,009	432,127	281,377	29,133	27,710	*	60,589	7,894,296
LESS DEPR ON CIS (TASK 4/5) LESS CONTRIBUTIONS AMORTIZED			(169,709)									(169,709)
TASK NO. 21		(8,094)	(277,509)	(233,331)	(222,761)	(218,474)	(163,492)	(26,863)				(1,150,524)
TOTAL		\$ 4,045,195	\$ 1,758,632	\$ 90,881	\$ 257,248	\$ 213,653	\$ 117,885	\$ 2,270	\$ 27,710	\$ -	\$ 60,589	\$ 6,574,063

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CITY OF GRAND RAPIDS, MICHIGAN WATER SUPPLY SYSTEM FUND ACCUMULATE REVENUE REQUIREMENTS BY CUSTOMER COMMUNITIES- TASK NO. 25 FISCAL YEAR ENDED JUNE 30, 2013

				RET	AIL				WHOLESALE		
COST CENTER	INTEGRATED SYSTEM	CITY OF GR	CITY OF WALKER	CITY OF KENTWOOD	CASCADE TOWNSHIP	GR TOWNSHIP	TALLMADGE TOWNSHIP	CITY OF EAST GR	COUNTY OF OTTAWA	ADA TOWNSHIP	TOTAL
OPERATION & MAINTENANCE EXPENSE- TASK NO. 22	\$ 10,384,615	\$ 7,627,793	\$ 1,086,114	\$ 1,216,976	\$ 911,047	\$ 690,537	\$ 50,933	\$ 58,763	\$ -	\$ 79,537	\$ 22,106,315
DEPRECIATION EXPENSE TASK NO. 24 RETURN ON SYSTEM INVESTMENT	4,045,195	1,758,632	90,881	257,248	213,653	117,885	2,270	27,710	~	60,589	6,574,063
TASK NO. 21	5,001,537	4,710,819	220,864	670,643	744,604	397,327	8,971	84,645	-	218,263	12,057,673
REVENUE CREDITS- TASK NO. 23 ALLOCATE:	-	(724,182)	(96,080)	(132,788)	(93,592)	(69,875)	(3,584)	-	-	-	(1,120,101)
INTEG CONN. FEE CREDIT (A) INTEGRATED SYSTEM (A)	- (19,431,347)	(446,208) 10,047,976	(83,037) 1,869,864	(95,444) 2,149,250	(61,337) 1,381,196	(43,778) 985,799	(3,865) 87,026	(31,582) 711,169	- 1,347,691	(37,808) 851,376	(803,059)
LESS: CIRCUIT BREAKER (B)		-	(1,196)	•	(150,424)	-	(16,523)				(168,143)
	\$ -	\$ 22,974,830	\$ 3,087,410	\$ 4,065,885	\$ 2,945,147	\$ 2,077,895	\$ 125,228	\$ 850,705	\$ 1,347,691	\$ 1,171,957	\$ 38,646,748

⁽A) ALLOCATED ON THE BASIS OF RELATIVE BILLED VOLUME & LAND AREA TO UAB PARTNERS. OTTAWA'S ALLOCATION IS BASED ON OLD CONTRACT AND EXCLUDES ANY COST OF COLDBROOK PUMPING.
(B) PURSUANT TO CITY AND CUSTOMER COMMUNITY CIRCUIT BREAKER, AS PROVIDED FOR BY THE THIRD AMENDMENT TO THE UNIFORM SERVICE AGREEMENTS.

REVIEW THE REVENUE REQUIREMENTS TO ASSURE COMPLIANCE WITH THE APPLICABLE BOND ORDINANCE PROVISIONS.

	YEAR ENDED	
	6/30/13	PRO FORMA *
REVENUES: RETAIL/WHOLESALE WATER SALES CONNECTION FEES/FRONT FOOT FEES BILLABLE TO SDS FUND OTHER OPERATING REVENUES INTEREST ON INVESTMENTS MISCELLANEOUS TOTAL REVENUES	\$ 41,220,464 950,335 2,034,682 2,057,503 192,493 581,765 \$ 47,037,242	\$ 38,046,945 850,000 1,933,471 2,247,000 110,000 516,371 \$ 43,703,787
OPERATING EXPENSES: OPERATIONS & MAINTENANCE DEPRECIATION	\$ 24,930,866 7,732,587	\$ 24,608,700 7,732,587
TOTAL EXPENSES	\$ 32,663,453	\$ 32,341,287
ADDITIONS: DEPRECIATION	7,732,587	7,732,587
NET EARNINGS OF THE SYSTEM	\$ 22,106,376	\$ 19,095,087
DEBT SERVICE (CASH BASIS) SERIES 1993 BONDS SERIES 2005 BONDS SERIES 2010 BONDS SERIES 2013 BONDS SENIOR LIEN JUNIOR LIEN ** TOTAL	\$ 3,475,850 2,270,938 1,970,140 7,352,900 - 15,069,828 134,625 15,204,453	\$ 3,492,100 2,274,738 1,972,740 7,336,700 366,055 15,442,333 534,775 15,977,108
COVERAGE RATIO - SENIOR DEBT	1.47	1.24
COVERAGE RATIO - ALL DEBT	1.45	1.20

^{*} METERED SALES ADJUSTED FOR RATE REVISIONS OF -4.41% AND -4.30% EFFECTIVE 1/1/13 AND 1/1/14, RESPECTIVELY; OTHER REVENUES AND OPERATIONS & MAINTENANCE EXPENSE PER 2014 FISCAL PLAN, ADJUSTED FOR CARRYFORWARDS.

^{**} AMOUNTS IN PRO FORMA ARE BASED ON MAXIMUM PRINCIPAL AND DO NOT INCLUDE PRINCIPAL FORGIVENESS.

SUMMARY

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

INITIAL SYSTEM REVENUE REQUIREMENTS			\$	38,814,891
REVENUES FROM CURRENT RATES				
MONTHLY METER CHARGE	\$	10,434,952		
MONTHLY BILLING CHARGE		3,094,254		
COMMODITY CHARGE		26,160,395		
MONTHLY FIRE PROTECTION		636,838		
ANNUAL HYDRANT CHARGE		55,704	(40,382,143)
INITIAL REQUIRED REVENUE INCREASE (DECREASE)			\$	(1,567,252)
INITIAL PERCENTAGE INCREASE (DECREASE) OVER EX	XIST	ING RATES		-3.88%
INITIAL SYSTEM REVENUE REQUIREMENTS FROM ABOVE			\$	38,814,891
LESS: AMOUNT OF CIRCUIT BREAKER RELIEF TO REDUCE RR's	то	RETAIL		(168,143)
SYSTEM REVENUE REQUIREMENTS			\$	38,646,748
ACTUAL REQUIRED AMOUNT OF REVENUE INCREASE	(DE	CREASE)	\$	(1,735,395)
ACTUAL PERCENTAGE INCREASE (DECREASE) OVER E	EXIS	TING RATES		-4.30%

WATER RATE STUDY WATER SUPPLY SYSTEM FUND TASK NO. 26

METER SIZE	EQUIV. FACTOR	CITY C	F GR EQUIV.	CITY OF N	WALKER EQUIV.	CITY OF KE	ENTWOOD EQUIV.	CASCAI METERS	DE T W P EQUIV.	GR T METERS	·WP EQUIV.	TALLMAD METERS	GE TWP EQUIV
A 3/4" or less	1.0000	54,808	54,808	5,410	5.410	3,425	3,425	2,492	2.492	3,566	3,566	116	116
B 1"	1.7778	2,469	4,389	459	816	622	1,106	322	572	310	551	20	36
C 1 1/4"	2.7778	_,,,,,,	-	_	-	-	-		-	-	-	_	-
D 1 1/2"	4.0000	1,122	4,488	217	868	388	1,552	237	948	120	480	4	16
E 2"	7.1111	849	6,037	105	747	196	1,394	95	676	43	306	3	21
F 3"	16.0000	92	1,472	10	160	18	288	8	128	7	112	2	32
G 4"	28.4444	85	2,418	9	256	13	370	3	85	2	57	1	28
H 6" and over	64.0000	13	832	3	192	2	128	-	-	1	64	-	
		59,438	74,444	6,213	8,449	4,664	8,263	3,157	4,901	4,049	5,136	146	249
FIRE PROTECTIO	N SERVICE												
H 6"		945		218		288		133		93		14	
I 8"		270		74		199		108		23		1	
J 10"		15		6		10		2		_		_	
K 12"		21		17		23		20		1		2	
		1,251		315		520		263		117		17	
	TOTAL	60,689		6,528		5,184		3,420		4,166		163	
	TOTAL											80,150	

Source: Water/Sewer Customer Accounts/Meters Report, dated October 31, 2013.

CITY OF GRAND RAPIDS, MICHIGAN

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

SYSTEM REVENUE REQUIREMENTS								\$	22,974,830
REVENUES FROM CURRENT RATES									
MONTHLY METER CHARGE 74,444 meter equivalents	x	\$	6.67	x	12 =	\$	5,958,498		
MONTHLY BILLING CHARGE 59,438 meters	x	\$	3.32	x	12 =		2,368,010		
COMMODITY CHARGE 8,653,272 units (100 CF)	x	\$	1.77		=		15,316,291		
MONTHLY FIRE PROTECTION							297,590		
ANNUAL HYDRANT CHARGE							***	(23,940,389)
REQUIRED REVENUE INCREASE (DECREASE)								\$	(965,560)
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES									-4.03%

CITY OF GRAND RAPIDS, MICHIGAN

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

COMMODITY CHARGE @ 64% = \$14,703,891 = \$ 1.70 /100 CF *

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS

\$ 22,974,830

NEW COMMODITY CHARGE 8,653,272 x \$ 1.70

\$ 14,710,562

NEW MONTHLY BILLING CHARGE

59,438 x \$ 2.87 x 1

2,047,045

MONTHLY FIRE PROTECTION CHARGE

297,590

ANNUAL HYDRANT CHARGE

(17,055,197)

\$ 5,919,632

MONTHLY METER CHARGE = $\frac{\$5,919,632}{74,444 \times 12}$ = $\frac{\$6.63}{12}$ MONTHLY

		MONT			
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRESENT
3/4" or less	1,0000	\$ 6.63	\$ 2.87	\$ 9.50	\$ 9.99
1"	1.7778	11.79	2.87	14.66	15.18
1 1/4"	2.7778	18.42	2.87	21.29	21.85
1 1/2"	4.0000	26.52	2.87	29.39	30.00
2"	7,1111	47.15	2.87	50.02	50.75
3"	16.0000	106.08	2.87	108.95	110.04
4"	28.4444	188.59	2.87	191.46	193.04
6" and over	64.0000	424.32	2.87	427.19	430.20

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

CITY OF WALKER, MICHIGAN

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

SYSTEM REVENUE REQUIREMENTS *								\$	3,087,410
REVENUES FROM CURRENT RATES									
MONTHLY METER CHARGE 8,449 meter equivalents	x	\$	9.22	x	12 =	\$	934,797		
MONTHLY BILLING CHARGE 6,213 meters	x	\$	3.32	x	12 =		247,526		
COMMODITY CHARGE 1,194,098 units (100 CF)	x	\$	1.63		=		1,946,380		
MONTHLY FIRE PROTECTION							83,334		
ANNUAL HYDRANT CHARGE									(3,212,037)
REQUIRED REVENUE INCREASE	(DE	ECR	EASE)			,			(124,627)
PERCENTAGE INCREASE (DECR	EAS	SE) (OVER I	EXIS	TING	RAT	ES		-3.88%
* REFLECTS RELIEF FROM	1 CIF	RCU	IIT BRE	EAKE	ER, IN	THE	AMOUNT OF	9	1,196

CITY OF WALKER, MICHIGAN

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

PRESENT CHARGE x RATE ADJUSTMENT \$ 1.57 /100 CF * \$ 1.63 x 96.12%

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS ** \$ 3,087,410

NEW COMMODITY CHARGE 1,194,098 x \$ 1.57

\$ 1,874,734

NEW MONTHLY BILLING CHARGE

6,213 x \$ 2.87 x 12 213,976

MONTHLY FIRE PROTECTION CHARGE 83,334

ANNUAL HYDRANT CHARGE ______ (2,172,044)

\$ 915,366

MONTHLY METER CHARGE =
$$\frac{\$915,366}{8,449 \times 12}$$
 = \$ 9.03 MONTHLY

		MONT				
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PR	ESENT
3/4" or less	1.0000	\$ 9.03	\$ 2.87	\$ 11.90	\$	12.54
1"	1.7778	16.05	2.87	18.92		19.71
1 1/4"	2.7778	25.08	2.87	27.95		28.93
1 1/2"	4.0000	36.12	2.87	38.99		40.20
2"	7.1111	64.21	2.87	67.08		68.88
3"	16.0000	144.48	2.87	147.35		150.84
4"	28.4444	256.85	2.87	259.72		265.58
6" and over	64.0000	577.92	2.87	580.79		593.40

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

1,196

^{**} REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF \$

CITY OF KENTWOOD, MICHIGAN

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

SYSTEM REVENUE REQUIREMENTS						\$ 4,065,885
REVENUES FROM CURRENT RATES						
MONTHLY METER CHARGE 8,263 meter equivalents	x	\$ 11.78	x	12 = \$	1,168,058	
MONTHLY BILLING CHARGE 4,664 meters	x	\$ 3.32	x	12 =	185,814	
COMMODITY CHARGE 1,745,663 units (100 CF)	x	\$ 1.60		=	2,793,061	
MONTHLY FIRE PROTECTION					146,117	
ANNUAL HYDRANT CHARGE						 (4,293,050)
REQUIRED REVENUE INCREASE	 (227,165)					
PERCENTAGE INCREASE (DECR	 -5.29%					

CITY OF KENTWOOD, MICHIGAN

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

PRESENT CHARGE x RATE ADJUSTMENT \$ 1.52 /100 CF * \$ 1.60 x 94.71%

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS \$ 4,065,885

NEW COMMODITY CHARGE 1,745,663 x \$ 1.52 \$ 2,653,408

Ψ 2,000, 100

NEW MONTHLY BILLING CHARGE 4,664 x \$ 2.87 x 12 160,628

MONTHLY FIRE PROTECTION CHARGE 146,117

ANNUAL HYDRANT CHARGE - (2,960,153)

\$ 1,105,732

MONTHLY METER CHARGE = $\frac{\$1,105,732}{8,263 \times 12}$ = $\frac{\$1.15}{12}$ MONTHLY

		MONT			
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRESENT
3/4" or less	1.0000	\$ 11.15	\$ 2.87	\$ 14.02	\$ 15.10
1"	1.7778	19.82	2.87	22.69	24.26
1 1/4"	2.7778	30.97	2.87	33.84	36.04
1 1/2"	4.0000	44.60	2.87	47.47	50.44
2"	7.1111	79.29	2.87	82.16	87.09
3"	16.0000	178.40	2.87	181.27	191.80
4"	28.4444	317.16	2.87	320.03	338.40
6" and over	64.0000	713.60	2.87	716.47	757.24

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

CASCADE TOWNSHIP

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

SYSTEM REVENUE REQUIREMENTS *									\$ 2,945,147
REVENUES FROM CURRENT RATES									
MONTHLY METER CHARGE 4,901 meter equivalents	x	\$	17.0	6	x	12 =	\$	1,003,333	
MONTHLY BILLING CHARGE 3,157 meters	x	\$	3.3	2	x	12 =		125,775	
COMMODITY CHARGE 841,275 units (100 CF)	x	\$	2.1	6		=		1,817,154	
MONTHLY FIRE PROTECTION								78,770	
ANNUAL HYDRANT CHARGE								39,000	 (3,064,032)
REQUIRED REVENUE INCREASE (DECREASE)								\$ (118,885)	
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES								 -3.88%	

* REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF \$ 150,424

CASCADE TOWNSHIP

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

PRESENT CHARGE x RATE ADJUSTMENT 2.16 x 96.12%

\$ 2.08 /100 CF *

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS **

\$ 2,945,147

NEW COMMODITY CHARGE

841,275 x \$ 2.08

\$ 1,749,852

NEW MONTHLY BILLING CHARGE

3,157 x \$ 2.87 x 12

108,727

MONTHLY FIRE PROTECTION CHARGE

78,770

ANNUAL HYDRANT CHARGE

39,000 (1,976,349)

968,798

MONTHLY METER CHARGE =
$$\frac{\$968,798}{4,901 \times 12}$$
 = \$ 16.47 MONTHLY

		MONT			
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRESENT
3/4" or less	1.0000	\$ 16.47	\$ 2.87	\$ 19.34	\$ 20.38
1"	1.7778	29.28	2.87	32.15	33.65
1 1/4"	2.7778	45.75	2.87	48.62	50.71
1 1/2"	4.0000	65.88	2.87	68.75	71.56
2"	7.1111	117.12	2.87	119.99	124.64
3"	16.0000	263.52	2.87	266.39	276.28
4"	28.4444	468.48	2.87	471.35	488.58
6" and over	64.0000	1,054.08	2.87	1,056.95	1,095.16

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014 ** REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF

150,424 \$

GRAND RAPIDS TOWNSHIP

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

SYSTEM REVENUE REQUIREMENTS					\$	2,077,895
REVENUES FROM CURRENT RATES						
MONTHLY METER CHARGE 5,136 meter equivalents x	\$ 12.18	x 12	2 = \$	750,678		
MONTHLY BILLING CHARGE 4,049 meters x	\$ 3.32	x 12	2 =	161,312		
COMMODITY CHARGE 690,289 units (100 CF) x	\$ 1.79		=	1,235,617		
MONTHLY FIRE PROTECTION				26,462		
ANNUAL HYDRANT CHARGE						(2,174,069)
REQUIRED REVENUE INCREASE (DE	ECREASE))			\$	(96,174)
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES						-4.42%

GRAND RAPIDS TOWNSHIP

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

PRESENT CHARGE x RATE ADJUSTMENT \$ 1.71 /100 CF * \$ 1.79 x 95.58%

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS \$ 2,077,895

NEW COMMODITY CHARGE 690,289 x \$ 1.71

39 x \$ 1.71 \$ 1,180,394

NEW MONTHLY BILLING CHARGE

4,049 x \$ 2.87 x 12 139,448

MONTHLY FIRE PROTECTION CHARGE

ANNUAL HYDRANT CHARGE ______ (1,346,304)

\$ 731,591

26,462

MONTHLY METER CHARGE = \$731,591 = \$ 11.87 MONTHLY

	MONTHLY SERVICE CHARGE				
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRESENT
3/4" or less	1.0000	\$ 11.87	\$ 2.87	\$ 14.74	\$ 15.50
1"	1.7778	21.10	2.87	23.97	24.97
1 1/4"	2.7778	32.97	2.87	35.84	37.15
1 1/2"	4.0000	47.48	2.87	50.35	52.04
2"	7.1111	84.41	2.87	87.28	89.93
3"	16.0000	189.92	2.87	192.79	198.20
4"	28.4444	337.64	2.87	340.51	349.77
6" and over	64.0000	759.68	2.87	762.55	782.84

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

TALLMADGE TOWNSHIP

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

SYSTEM REVENUE REQUIREMENTS * LESS: CASH CONTRIBUTION								\$	125,228
SYSTEM REVENUE REQUIREMENTS								\$	125,228
REVENUES FROM CURRENT RATES									
MONTHLY METER CHARGE 249 meter equivalents	x	\$	4.17	x	12 =	\$	12,460		
MONTHLY BILLING CHARGE 146 meters	x	\$	3.32	x	12 =		5,817		
COMMODITY CHARGE 24,724 units (100 CF)	x	\$	3.67		=		90,737		
MONTHLY FIRE PROTECTION							4,565		
ANNUAL HYDRANT CHARGE							16,704		(130,283)
REQUIRED REVENUE INCREASE	(DE	ECR	EASE)					\$	(5,055)
PERCENTAGE INCREASE (DI	ECF	REA	SE) O\	/ER	EXIST	ING R	ATES		-3.88%
* REFLECTS RELIEF FROM	1 CII	RCL	JIT BRI	EAK	ER, IN	THE A	AMOUNT OF	= \$	16,523

TALLMADGE TOWNSHIP

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

PRESENT CHARGE x RATE ADJUSTMENT \$ 3.67 x 96.12%

\$ 3.53 /100 CF *

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS **

\$ 125,228

NEW COMMODITY CHARGE

24,724 x \$ 3.53

87,276

NEW MONTHLY BILLING CHARGE

146 x \$ 2.87 x 12

5,028

MONTHLY FIRE PROTECTION CHARGE

4,565

ANNUAL HYDRANT CHARGE

16,704 (113,573)

> 11,655 \$

MONTHLY METER CHARGE = $\frac{\varphi_{++}, \varphi_{-}}{249 \text{ x}}$ - = \$ 3.90 MONTHLY12

		MONT	HLY SERVICE CHA	ARGE		
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRI	ESENT
3/4" or less	1.0000	\$ 3.90	\$ 2.87	\$ 6.77	\$	7.49
1"	1.7778	6.93	2.87	9.80		10.73
1 1/4"	2.7778	10.83	2.87	13.70		14.90
1 1/2"	4.0000	15.60	2.87	18.47		20.00
2"	7.1111	27.73	2.87	30.60		32.97
3"	16.0000	62.40	2.87	65.27		70.04
4"	28.4444	110.93	2.87	113.80		121.93
6" and over	64.0000	249.60	2.87	252.47		270.20

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014 ** REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF

16,523

CITY OF EAST GRAND RAPIDS, MICHIGAN

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

INTEGRATED SYSTEM REVENUE REQUIREMENTS *	\$ 679,587
COMMODITY CHARGE (100CF) 608,588 units x \$ 1.18	 718,134
REQUIRED COMMODITY REVENUE INCREASE (DECREASE)	\$ (38,547)
NON-INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ 171,118
MONTHLY SERVICE CHARGE \$15,702 x 12 MONTHS	 188,424
REQUIRED SERVICE REVENUE INCREASE (DECREASE)	\$ (17,306)
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES	-6.16%

^{*} NET OF INTEGRATED CONNECTION FEE CREDIT.

CITY OF EAST GRAND RAPIDS, MICHIGAN

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 27

SYSTEM REVENUE REQUIREMENTS

\$ 850,705

NEW COMMODITY CHARGE *

608,588 x \$1.12 =

(681,619)

\$ 169,086

MONTHLY SERVICE CHARGE * = \$169,086 / 12 = \$14,091

* NEW RATES EFFECTIVE ON JANUARY 1, 2014

ADA TOWNSHIP

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

INTEGRATED SYSTEM REVENUE REQUIREMENTS *	\$ 813,568
COMMODITY CHARGE (100CF) 652,197 units x \$ 1.30	847,856
REQUIRED COMMODITY REVENUE INCREASE (DECREASE)	\$ (34,288)
NON-INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ 358,389
MONTHLY SERVICE CHARGE \$34,722 x 12 MONTHS	416,664
REQUIRED SERVICE REVENUE INCREASE (DECREASE)	\$ (58,275)
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES	 -7.32%

^{*} NET OF INTEGRATED CONNECTION FEE CREDIT.

ADA TOWNSHIP

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 27

SYSTEM REVENUE REQUIREMENTS

\$ 1,171,957

NEW COMMODITY CHARGE *

652,197 x \$1.25 =

(815,246)

\$ 356,711

MONTHLY SERVICE CHARGE * = \$356,711 / 12 = \$29,726

* NEW RATES EFFECTIVE ON JANUARY 1, 2014

OTTAWA COUNTY

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 26

INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ 1,347,691
COMMODITY CHARGE (100CF) 1,107,274 units x \$ 1.26	 1,395,165
REQUIRED COMMODITY REVENUE INCREASE (DECREASE)	\$ (47,474)
NON-INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ -
MONTHLY SERVICE CHARGE \$170 x 12 MONTHS	2,040
REQUIRED SERVICE REVENUE INCREASE (DECREASE)	\$ (2,040)
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES	-3.54%

OTTAWA COUNTY

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RATE ANALYSIS - TASK NO. 27

SYSTEM REVENUE REQUIREMENTS \$ 1,347,691

NEW COMMODITY CHARGE *

1,107,274 x \$1.22 = (1,350,874)

\$ (3,183)

MONTHLY SERVICE CHARGE * = \$ - /12 = \$0

* NEW RATES EFFECTIVE ON JANUARY 1, 2014



DATE: October 7, 2013

TO: Geri Eye

Utility Financial Officer

FROM: Rick DeVries, P.E.

Assistant City Engineer

SUBJECT: WATER RATE STUDY - TASK NO. 28 AND 29

Enclosed are the Front Foot Rates for Watermain (Task 28) and the costs for the Water Service Pipes (Task 29), for the Fiscal Year 2013.

RDV

Enclosures

cc: Jack Stegehuis

Mark Garvey

WATER RATE STUDY WATER SUPPLY SYSTEM FUND RE-EVALUATE FRONT FOOT CHARGES TASK NO. 28

The City Engineer's Office has reviewed current construction costs for water facilities and recommends the following front foot assessment rates:

	2013	 2014	% Increase
Domestic Water User	\$ 75.00	\$ 78.00	4.00%
Commercial - Industrial User (Watermain over 8 in. diameter)	\$110.00	\$ 103.00	-6.36%

The rates are based on an average of prices quoted in bid proposals which have been received by the City Engineer's Office during the period July, 2012 through June, 2013. Calculations of the rates are on file in the City Engineer's Office.

WATER RATE STUDY WATER SUPPLY SYSTEM FUND EVALUATE WATER SERVICE CHARGES TASK NO. 29

The City Engineer's Office has evaluated the cost for water services and recommends the following water service charges:

		50 Ft. R.O.W.	60 Ft. <u>R.O.W.</u>	66 Ft. <u>R.O.W.</u>	80 Ft. <u>R.O.W.</u>	100 Ft. <u>R.O.W.</u>
Cost for 1"	2013	\$ 2,050	\$ 2,400	\$ 2,550	\$ 3,000	\$ 3,600
Water Service	2014	\$ 2,250	\$ 2,600	\$ 2,800	\$ 3,200	\$ 3,900
Cost for 1-1/2"	2013	\$ 3,000	\$ 3,400	\$ 3,700	\$ 4,200	\$ 5,000
Water Service	2014	\$ 3,100	\$ 3,500	\$ 3,750	\$ 4,400	\$ 5,200
Cost for 2"	2013	\$ 3,500	\$ 3,900	\$ 4,200	\$ 4,750	\$ 5,600
Water Service	2014	\$ 3,550	\$ 3,900	\$ 4,300	\$ 4,800	\$ 5,800
The percent increase pipe charges are as		low: 50 Ft.	60 Ft.	66 Ft.	80 Ft.	100 Ft.
Increase for 1"		<u>R.O.W.</u>	<u>R.O.W.</u>	<u>R.O.W.</u>	<u>R.O.W.</u>	R.O.W.
Water Service		9.76%	8.33%	9.80%	6.67%	8.33%
Increase for 1-1/2" Water Service		3.33%	2.94%	1.35%	4.76%	4.00%
Increase for 2" Water Service		1.43%	0.00%	2.38%	1,05%	3.57%

City Engineer's Office 10/7/2013 11:11 AM t:\rdv\13 rate study 7-13-13



DATE: October 7, 2013

TO: Geri D. Eye

Utility Financial Officer

FROM: Nicole N. Pasch, Business Manager

SUBJECT: 2013 Water Rate Study - Task #30

Miscellaneous rates and charges contained within the Water System Rules and Regulations have been reviewed with staff.

The following are recommended changes:

- Fees for Omni type meters (1-1/2", 2", 3", 4" and 6" or larger) were added to Frozen/Damaged/Missing Meter Charges
- Wording was changed from "Final Reading" to "Final or Actual Reading" under Meter Fees
- Security Deposit information was updated to FY13 figures
- Wording of "(Administration Fee)" was added to Processing for shut-off under Penalties
- Wording at conclusion of Penalties was changed to "*Penalties shall double with each subsequent infraction"

All other fees and charges are recommended to remain the same.

NNP

Cc: Joellen Thompson Wayne Jernberg Pamela Ritsema Mike Lunn

TASK 30 Fees, Charges, and Penalties

Fire Protection Charges

Pipe Size	Monthly (\$)	Quarterly (\$)
6"	16.00	48.00
8"	28.40	85.20
10"	44.48	133.44
12"	64.00	192.00
Hydrant Use Permits		
	Deposit (\$)	<u>Fee (\$)</u>
W H D 1577 D 3		
Weekly Pool Filling Permit	300.00	75.00/week
Outrode Occasion United to Comment of the Branch	(Refundable)	75.00/
Contractor Seasonal Hydrant Connection Permit	300.00	75.00/week
(Minter or Curence)	(Non-refundable)	
(Winter or Summer)	200.00	05 00/wook*
Tanker Hydrant Connection Permit	300.00	25.00/week*
	(Non-refundable) *Plus metered volur	ma basad an
	average retail com	
Hydrant Flow Test Fee	average retail com	200.00
riyurant riow restree		200.00
Tapping Permits		
•		Γ (Φ)
Connection Size		Fee (\$)
2" or smaller		225.00 Cost
3" or Larger		Cost
Meter Installation and Seasonal Turn off	on Fees	
Meter Size (Inches)		<u>Fee (\$)</u>
3/4" or smaller		40.00
1"		45.00
1-1/2"		55.00
2"		60.00
3"		100.00 200.00
4"		250.00
o or larger	•••••	230.00
Frozen/Damaged/Missing Meter Cha	rges	
Meter Size (Inches)	J	Fee (\$)
3/4" or smaller	***************************************	150.00
1"		200.00
1-1/2" ECR		350.00
1-1/2" Turbo		500.00
1-1/2" Omni		820.00
2" ECR		450.00
2" Turbo		575.00
2" Omni		950.00
3" Turbo		750.00
3" Omni	•••••	1170.00

4" Omni	2205.00 3530.00
Meter Fees	
Final or Actual Reading	Fee (\$) 35.00
Meter Testing Fee: (paid by customer if meter is accurate, no charge if meter is faulty) 5/8 – 1" Meter	50.00 75.00 Cost

Water and Sewer Rates

Chapter 26 and 27, Grand Rapids City Code

Security Deposit					
Security Deposit	Minimum Charge(\$)				
Three (3) times the average quarterly bill (\$181.44)					
Times (a) times the average quarterly bin (\$\psi 10 1.44)	044.02				
Miscellaneous Fees and Permits					
	Fee (\$)				
Street Opening Permit					
Water Inspection Permit (each inspection within the City)	40.00				
Water Inspection Permit (each inspection outside of the City)					
Sanitary Service Line Inspection Permit (each inspection within the City)	40.00				
Sanitary Service Line Inspection Permit (each inspection outside of the City)					
Storm Service Line Inspection Permit (each inspection within the City)	40.00				
Storm Service Line Inspection Permit (each inspection outside of the City)	55.00				
Plumbing Service Re-inspection Fee					
Cross Connection Re-inspection Fee					
Sewer Lateral Service Demolition/Cap off Inspection Fee (each within the City)					
Sewer Lateral Service Demolition/Cap off Inspection Fee (each out of the City)					
Footing Drain Lateral Inspection Permit (each within the City)					
Footing Drain Lateral Inspection Permit (each out of the City)	55.00				
Service Fee					
OCIVIOC I CO	Fee (\$)				
Customer requested on site consider (non-schoduled appointment systemer issue or					
Customer-requested on-site service (non-scheduled appointment-customer issue or	,,				
Turn-on/turn-off water for real-estate inspections	110.00				
Penalties					
	Fee(\$)				
Late-Payment Penalty	10% of net				
Processing for shut-off (Administration Fee) (non-payment, cross connection)	55.00				

Penalty for failure to keep appointment	35.00
Penalty for each missed appointment thereafter (related to same service)	50.00
Unauthorized operation of valves	100.00*
(plus double the commodity rate for estimated volume)	
Unauthorized use of connection pipes for fire protection	100.00*
(plus double the commodity rate for estimated volume)	
Unauthorized opening of by-pass valve/tampering	100.00*
(plus double the commodity rate for estimated volume)	
Unauthorized use of a hydrant	500.00
Use of illegal connection on hydrant	500.00
(including loss of connection)	
Failure to return hydrant connection equipment and/or return of damaged	500.00
hydrant connection equipment	
Lost/non-returned hydrant wrench	50.00
Permit infractions/violations	100.00*
(plus double with each subsequent infraction)	
Returned check charge (verified with City Treasurer)	30.00
Unauthorized service tap of water main	500.00
(fine per tap plus tapping permit fee for each tap)	

^{*}Penalties shall double with each subsequent infraction

CITY OF GRAND RAPIDS, MICHIGAN WATER RATE STUDY WATER SUPPLY SYSTEM FUND TASK NO. 31

THERE IS NO TASK 31 FOR THE WATER RATE STUDY.



DATE: October 11, 2013

TO: Geri Eye

Utility Finance Officer

FROM: Wayne Jernberg, P.E.

Assistant Water System Manager

SUBJECT: 2013 WATER RATE STUDY- TASK #32, WATER MAIN OVERSIZING

RATES

Water main oversizing rates are established for this year as noted below:

8 inch to 12 inch \$16.56 per lineal foot 12 inch to 16 inch \$21.78 per lineal foot 8 inch to 16 inch \$38.35 per lineal foot

These rates have been determined in accordance with the Water System Rules and Regulations, and are approved for use from January 1, 2014 through December 31, 2014. Background information and calculations to establish these rates are on file in the Utility Engineering, Distribution and Collection Office.

These costs will be reviewed and may be adjusted again next year. If you have any questions regarding this matter, please call me at 456-4055.

WJ

Cc: Joellen Thompson

Arden Postma Rick DeVries Mark DeClercq

CITY OF GRAND RAPIDS, MICHIGAN WATER RATE STUDY WATER SUPPLY SYSTEM FUND TASK NO. 33

SERVICE AREA MAPS AND SERVICE AREA LAND MASS SUMMARIES

The following summarizes Utility Services Districts (USD) land mass square miles for UAB partner communities, per information on file as of October 7, 2013:

UAB Partners USD by CC Pero	cent
Grand Rapids 45.36 35.	127%
Walker 25.43 19.6	593%
Kentwood 14.00 10.8	342%
Cascade 20.45 15.8	337%
Grand Rapids Township 10.93 8.4	164%
Tallmadge Township 2.44 1.8	390%
East Grand Rapids 3.37 2.6	310%
Ada 7.15 5.8	537%
Total 129.13 100.0	000%

CITY OF GRAND RAPIDS, MICHIGAN WATER RATE STUDY WATER SUPPLY SYSTEM FUND TASK NO. 34

INDIVIDUAL CIRCUIT BREAKER AND CITY & CUSTOMER COMMUNITY CIRCUIT BREAKER

The Third Amendment to the Water and Sanitary Sewer Agreements stipulates penalty fees shall be used to fund the circuit breaker provisions noted above. The following summarizes those values:

Description	A	MOUNT	PERCENT		
Individual Circuit Breaker	\$	68,139	12.50%		
City & Customer Community Circuit Breaker		476,974	87.50%		
Total	\$	545,113	100.00%		

The following summarizes the amount, if any, of the City & Customer Community Circuit Breaker to be applied as a revenue credit in next year's Rate Study:

Description	 TNUOMA	PERCENT		
City & Customer Community Circuit Breaker Amount- Above	\$ 476,974	100.00%		
Less: Amount Applied in Current Rate Study	(168,143)	-35.25%		
Total Revenue Credit- Next Year's Rate Study	\$ 308,831	64.75%		

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND SYSTEM ADDITIONS AND IMPROVEMENTS FOR THE YEAR ENDED JUNE 30, 2013 TASKS NO. 1, 2, & 3

	LOC	AL	TRU	NK	INTERCE	PTOR	TOTALS		
COMMUNITY	FEET	MILES	FEET	MILES	FEET	MILES	FEET	MILES	
Grand Rapids									
Construction	2,286	0.43	4,942	0.94	0	0.00	7,228	1.37	
Abandonment	(1,974)	(0.37)	(3,584)	(0.68)	0	0.00	(5,558)	(1.05)	
CSO Construction	2,320	0.44	3,315	0.63	3,134	0.59	8,769	1.66	
CSO Abandonment	(3,467)	(0.66)	(1,745)	(0.33)	(3,107)	(0.59)	(8,319)	(1.58)	
	(835)	(0.16)	2,928	0.56	27	0.00	2,120	0.40	
Kentwood									
Construction	0	0.00	0	0.00	0	0.00	0	0.00	
Abandonment	0	0.00	0	0.00	0	0.00	0	0.00	
	0	0.00	0	0.00	0	0.00	0	0.00	
Cascade Twp.									
Construction	0	0.00	0	0.00	0	0.00	0	0.00	
Abandonment	0	0.00	0	0.00	0	0.00	0	0.00	
	0	0.00	0	0.00	0	0.00	0	0.00	
G.R. Twp.									
Construction	5,760	1.09	0	0.00	0	0.00	5,760	1.09	
Abandonment	0	0.00	0	0.00	0	0.00	0	0.00	
	5,760	1.09	0	0.00	0	0.00	5,760	1.09	
Tallmadge Twp.									
Construction	0	0.00	0	0.00	0	0.00	0	0.00	
Abandonment	0	0.00	0	0.00	0	0.00	0	0.00	
	0	0.00	0	0.00	0	0.00	0	0.00	
Walker									
Construction	0	0.00	0	0.00	0	0.00	0	0.00	
Abandonment	0	0.00	0	0.00	0	0.00	0	0.00	
•	0	0.00	0	0.00	0	0.00	0	0.00	
Wright Twp									
Construction	0	0.00	0	0.00	0	0.00	0	0.00	
Abandonment	0	0.00	0	0.00	0	0.00	0	0.00	
, ibandoninom	0	0.00	0	0.00	0	0.00	0	0.00	
TOTAL	4,925	0.93	2,928	0.56	27		7,880	1.49	
	1,020		2,020				1,000	1.10	

	CONTRIBUTIONS									
	COMM	OTHER	TOTAL							
Integrated	\$ -	\$ 38,186	\$ 38,186							
Grand Rapids	196,746	970,000	1,166,746							
Kentwood	294,007		294,007							
Cascade Twp.	-		-							
Grand Rapids Twp.	429,710		429,710							
Tallmadge Twp.	-		-							
Walker	-		-							
Wright Twp.	-		-							
TOTAL	\$ 920,463	\$ 1,008,186	\$ 1,928,649							

S-2

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND OPERATING EXPENSE ALLOCATION BY COST CENTER - TASK #4, PART 1 FISCAL YEAR ENDED JUNE 30, 2013

			WASTEWATER	WASTE	VATER LIFT ST	ATIONS		SEWER LINES		BULK			
ACTIVITY CODE	ACTIVITY	EXPENSE BY ACTIVITY	TREATMENT PLANT	INTERCEPTOR	TRUNK	LOCAL COLLECTOR	INTERCEPTOR	TRUNK	LOCAL COLLECTOR	METERING STATIONS	CUSTOMER ACCOUNTING	INDUSTRIAL PRETREAT.	ADMIN. EXPENSE
4423	WASTEWATER TREATMENT (LESS 442305)	\$ 16,024,125	\$ 15,184,767	\$ 275,265	\$ 120,607	\$ 432,141				\$ 11,346			
4425	SEWER MAINTENANCE	5,021,812					267,914	572,939	4,180,959				
4413	CUSTOMER SERVICE *	2,679,512									2.679,512		
442305	INDUSTRIAL PRETREATMENT	639,323										639,323	
	SUBTOTAL OPERATING EXPENSE	24,364,772	15,184,767	275,265	120,607	432,141	267,914	572,939	4,180,959	11,346	2,679,512	639,323	-
4410	ADMINISTRATION	1,064,087											1,064,087
	TOTAL	\$ 25,428,859	\$ 15,184,767	\$ 275,265	\$ 120,607	\$ 432,141	\$ 267,914	\$ 572,939	\$ 4,180,959	\$ 11,346	\$ 2,679,512	\$ 639,323	\$ 1,064,087

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.

WE.	IHOL	OF.	DIS	TRIB	UTION	

4423	WASTEWATER TREATMENT		100.000%											
	A. TREATMENT PLANT			94.762%										
	B. LIFT & METER STATION NO. OF STATIONS	S (57)		5.238%	(1)	(7)	(45)				(4)			
4425	SEWER MAININTENANCE TOTAL MILES	906.63	100.000%											
	A. INTERCEPTOR MILES B. TRUNK LINES	48.37	5.335%					5.335%						
	MILES C. LOCAL COLLECTOR	103.44	11.409%						11.409%					
	MILES	754.82	83.256%							83.256%				
4413	CUSTOMER SERVICE		100.000%									100.000%		
442305	INDUSTRIAL PRETREATMEN	Т	100.000%										100.000%	
4410	ADMINSTRATION		100.000%											100.000%

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND OPERATING EXPENSE ALLOCATION BY GOVERNMENTAL UNIT - TASK #4, PART 2 FISCAL YEAR ENDED JUNE 30, 2013

						RETAIL						WHOLESALE		
COST CENTER	EXPENSE BY COST CENTER	INTEGRATED SYSTEM	CITY OF GR	CITY OF WALKER	CITY OF KENTWOOD	CASCADE TOWNSHIP	GR TOWNSHIP	TALLMADGE TOWNSHIP	WRIGHT TOWNSHIP	CITY OF EAST GR	N, KENT AREA	ADA TOWNSHIP	GAINES TOWNSHIP	MEIJER- ALGOMA
WASTEWATER TREATMENT	\$ 15,184,767	\$ 15,184,767												
LIFT STATIONS: A. INTERCEPTOR B. TRUNK C. LOCAL COLLECTOR	275,265 120,607 432,141		275,265 32,020 60,907	69,698 74,719	- -	18.889 85,368	161,239	28.904	- - 6,848	-	 -	- - 14,154	- - -	
SEWER LINES: A. INTERCEPTOR B. TRUNK C. LOCAL COLLECTOR	267,914 572,939 4,180,959		160,127 194,804 2,620,415	38,274 147,830 515,679	62,644 134,652 407,727	6,869 48,574 247,764	30,738 318,046	15,676 46,409	665 24,919	-	-	-	-	
BULK METERING STATIONS	11,346		-	-	3,428	-	-	-	-	2,804		2,581	2,533	-
CUSTOMER ACCOUNTING INDUSTRIAL PRETREATMENT	2,679,512 639,323	639,323	2,108,213	201.044	161,441	64,094	131,430	4,957	8.333					
SUBTOTAL OPERATING EXPENSE	24,364.772	15,824,090	5,451,751	1,047,244	769,892	471,558	641,453	95,946	40,765	2,804	-	16,735	2,533	ē
ADMINISTRATIVE EXPENSE	1,064,087	691,090	238,095	45,736	33,624	20,594	28,014	4,190	1,780	122		731	111	
TOTAL	\$ 25,428.859	\$ 16,515,180	\$ 5,689,846	\$ 1,092,980	\$ 803,516	\$ 492,152	\$ 669,467	\$ 100,136	\$ 42,545	\$ 2,926	\$ -	\$ 17,466	\$ 2,644	\$ -
METHOD OF DISTRIBUTION	**ERR**													
WASTEWATER TREATMENT														
A. TREATMENT PLANT	100.000%	100.00%												
B. LIFT & METER STATIONS (1) NO. OF STATIONS (57)	100.000%		(13)	(6)	(1)	(10)	(17)	(5)	(1)	(1)	-	(2)	(1)	-
SEWER LINES: 906.63														
A: INTERCEPTOR MILES 48.37	100.000%		59.768% 28.91	14.286% 6.91	23.382% 11.31	2.564% 1.24	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
B. TRUNK LINES MILES 103.44	100.000%		34.001% 35.17	25.802% 26.69	23.502% 24.31	8.478% 8.77	5.365% 5.55	2.736% 2.83	0.116% 0.12	0.000%	0.000%	0.000%	0.000%	0.000%
C. LOCAL COLLECTOR MILES 754.82	100.000%		62.675% 473.08	12.334% 93.10	9.752% 73.61	5.926% 44.73	7.607% 57.42	1.110% 8.38	0.596% 4.50	0.000%	0.000%	0.000%	0.000%	0.000%
CUSTOMER ACCTG (2) NO. OF METERS 74,053.00	100.000%		78.990% 58,265.00	7.503% 5,556.00	6.025% 4,462.00	2.392% 1.771.00	4.905% 3,632.00	0.185% 137.00	0.311% 230.00					
INDUSTRIAL PRETREATMENT	100.000%	100.00%												
ADMINISTRATIVE EXPENSE (3)	100.000%	64.947%	22.376%	4.298%	3.160%	1.935%	2.633%	0.394%	0.167%	0.011%	0.000%	0.069%	0.010%	0.000%

NOTES:

- (1) DIRECT COSTS PER SCHEDULE.
- (1) DIRECT COSTS FER SCHEDULE.
 (2) ALLOCATION BASED ON NUMBER OF METERS, INCLUSIVE OF USERS FOR WRIGHT TWP.
 (3) ALLOCATED ON DIRECT OPERATING EXPENSE, ADJUSTED FOR ANY COST ASSIGNABLE EXCLUSIVELY TO GR OR RETAIL COMMUNITIES, IF APPLICABLE.

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CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND ADJUSTED OPERATING EXPENSE ALLOCATION BY COST CENTER - TASK #5, PART 1 FISCAL YEAR ENDED JUNE 30, 2013

		ADJUSTED	WASTEWATER	WASTE	NATER LIFT ST	ATIONS		SEWER LINES		BULK			
ACTIVITY CODE	ACTIVITY	EXPENSE BY ACTIVITY	TREATMENT PLANT	INTERCEPTOR	TRUNK	LOCAL COLLECTOR	INTERCEPTOR	TRUNK	LOCAL COLLECTOR	METERING STATIONS	CUSTOMER ACCOUNTING	INDUSTRIAL PRETREAT.	ADMIN. EXPENSE
4423	WASTEWATER TREATMENT (LESS 442305)	\$ 14,714,535	\$ 13,924,033	\$ 259,244	\$ 113,588	\$ 406,985				\$ 10,685			
4425	SEWER MAINTENANCE	5,185,359					276,639	591,598	4,317,122				
4413	CUSTOMER SERVICE *	2,559,086									2.559,086		
442305	INDUSTRIAL PRETREATMENT	643,490										643,490	
	SUBTOTAL OPERATING EXPENSE	23,102,470	13,924,033	259,244	113,588	406,985	276,639	591,598	4,317,122	10,685	2,559,086	643,490	-
4410	ADMINISTRATION	1,624,251											1,624,251
	TOTAL	\$ 24,726,721	\$ 13,924,033	\$ 259,244	\$ 113,588	\$ 406,985	\$ 276,639	\$ 591,598	\$ 4,317,122	\$ 10,685	\$ 2,559,086	\$ 643,490	\$ 1,624,251

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.

4423	WASTEWATER TREATMENT		100.000%											
	A. TREATMENT PLANT			94.628%										
	B. LIFT & METER STATION NO. OF STATIONS	IS (57)		5.372%	(1)	(7)	(45)				(4)			
4425	SEWER MAININTENANCE TOTAL MILES	906.63	100.000%											
	A. INTERCEPTOR MILES B. TRUNK LINES	48.37	5.335%					5.335%						
	MILES C. LOCAL COLLECTOR	103.44	11.409%						11.409%					
	MILES	754.82	83.256%							83.256%				
4413	CUSTOMER SERVICE		100.000%									100.000%		
442305	INDUSTRIAL PRETREATMEN	١T	100.000%										100.000%	
4410	ADMINSTRATION		100.000%											100.000%

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND ADJUSTED OPERATING EXPENSE ALLOCATION BY GOVERNMENTAL UNIT - TASK #5, PART 2 FISCAL YEAR ENDED JUNE 30, 2013

	ADJUSTED					RETAIL						WHOLESALE		
COST CENTER	EXPENSE BY	INTEGRATED	CITY OF	CITY OF	CITY OF	CASCADE	GR TOWNSHIP	TALLMADGE	WRIGHT	CITY OF	N. KENT	ADA	GAINES	MEIJER-
WASTEWATER TREATMENT	\$ 13.924.033	SYSTEM \$ 13.924.033	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	AREA	TOWNSHIP	TOWNSHIP	ALGOMA
LIFT STATIONS:	\$ 13,924,033	\$ 15,924.033												
A. INTERCEPTOR B. TRUNK C. LOCAL COLLECTOR	259.244 113,588 406,985		259,244 30,157 57,360	65,641 70,371	-	17,790 80,400	- - 151,852	- - 27,222	6.450	-	-	- - 13,330	-	-
SEWER LINES: A. INTERCEPTOR B. TRUNK C. LOCAL COLLECTOR	276,639 591,598 4,317.122		165.341 201,150 2,705,756	39,521 152,644 532,474	64,684 139,037 421,006	7,093 50,156 255,833	31,739 328,403	16,186 47,920	- 686 25.730	- -	-		# *	-
BULK METERING STATIONS	10.685		-		3,228	-	-	-	-	2,641	-	2,431	2,385	-
CUSTOMER ACCOUNTING	2,559,086		2,013,464	192,008	154.185	61,213	125,523	4,734	7,959					
INDUSTRIAL PRETREATMENT	643,490	643,490												
SUBTOTAL OPERATING EXPENSE	23,102,470	14,567,523	5,432,472	1,052,659	782,140	472,485	637,517	96,062	40,825	2,641	-	15,761	2,385	-
ADMINISTRATIVE EXPENSE	1,624,251	1,024,188	381,937	74,009	54,990	33,219	44,822	6,754	2,870	186		1,108	168_	-
TOTAL	\$ 24,726,721	\$ 15,591,711	\$ 5,814,409	\$ 1,126,668	\$ 837,130	\$ 505,704	\$ 682,339	\$ 102,816	\$ 43,695	\$ 2,827	\$ -	\$ 16,869	\$ 2,553	<u>\$</u>
METHOD OF DISTRIBUTION														
WASTEWATER TREATMENT														
A. TREATMENT PLANT	100.000%	100.00%												
B. LIFT & METER STATIONS (1) NO. OF STATIONS (57)	100.000%		(13)	(6)	(1)	(10)	(17)	(5)	(1)	(1)	-	(2)	(1)	-
SEWER LINES: 906.63														
A. INTERCEPTOR MILES 48.37	100.000%		59.768% 28.91	14.286% 6.91	23.382% 11.31	2.564% 1.24	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
B. TRUNK LINES MILES 103.44	100.000%		34.001%	25.802% 26.69	23.502%	8.478%	5.365%	2.736%	0.116%	0.000%	0.000%	0.000%	0.000%	0.000%
MILES 103.44 C. LOCAL COLLECTOR	100.000%		35.17 62.675%	12.334%	24.31 9.752%	8.77 5.926%	5.55 7.607%	2.83 1.110%	0.12 0.596%	0.000%	0.000%	0.000%	0.000%	0.000%
MILES 754.82			473.08	93.10	73.61	44.73	57.42	8.38	4.50	-	-	-	-	-
CUSTOMER ACCTG (2) NO. OF METERS 74,053.00	100.000%		78.679% 58,265.00	7.503% 5,556.00	6.025% 4,462.00	2.392% 1,771.00	4.905% 3,632.00	0.185% 137.00	0.311% 230.00					
INDUSTRIAL PRETREATMENT	100.000%	100.00%												
ADMINISTRATIVE EXPENSE (3)	100.000%	63.055%	23.515%	4.557%	3.386%	2.045%	2.760%	0.416%	0.177%	0.011%	0.000%	0.068%	0.010%	0.000%

NOTES

- (1) ADJUSTED DIRECT COSTS PER SCHEDULE.
- (2) ALLOCATION BASED ON NUMBER OF METERS, INCLUSIVE OF USERS FOR WRIGHT TWP.
- (3) ALLOCATED ON DIRECT OPERATING EXPENSE, ADJUSTED FOR ANY COST ASSIGNABLE EXCLUSIVELY TO GR OR RETAIL COMMUNITIES. IF APPLICABLE

ORGANIZATIONAL UNIT: 4401, 4410 & 4480 - ADMINISTRATION **ADJUSTED ADJUSTED** CURRENT EXPENDITURE SUB-OBJECT COST **OPERATING ANNUAL** NO. DESCRIPTION **EXPENSES FACTORS EXPENSES** 7020 PERMANENT EMPLOYEES 211,340.75 211,340.75 7105 **EMPLOYERS SOCIAL SECURITY** 14,211.07 14,211.07 7110 HOSPITALIZATION INSURANCE 28,430.02 1,265.14 29,695.16 RETIREE HEALTH CARE 7115 31,798.78 639.16 32,437.94 7120 RETIREMENT FUND CONTRIBUTION 18,385.84 18,385.84 7125 SPECIAL PENSION BENEFITS 8,683.28 8,683.28 7135 UNEMPLOYMENT COMPENSATION 282.82 282.82 7150 LONGEVITY PAY 885.50 885.50 7165 SHIFT DIFFERENTIAL 7.30 7.30 TOTAL PERSONAL SERVICES 314,025.36 1,904.30 315,929.66 2,209.02 7260 **SUPPLIES** 2.209.02 7300 **POSTAGE** 12.95 12.95 2,221.97 2,221.97 TOTAL SUPPLIES 8140 COMPUTER SERVICES 157,158.96 (147,766,96)9.392.00 8180 CONTRACTUAL SERVICES 48,948.48 136,297.00 185,245.48 8355 **CLAIMS** 127,027.00 97,451.00 224,478.00 8450 **INSURANCE PREMIUMS** 191,088.98 191,088.98 TELEPHONE 8500 3,078.55 3.078.55 9000 PRINTING & PUBLISHING 9,497.18 9,497.18 9410 **BUILDINGS RENTALS OR LEASE** 19.258.14 19.258.14 9420 **EQUIPMENT RENTALS OR LEASE** 1,358.91 1,358.91 9440 VEHICLE RENTAL/CAR MILEAGE 7,260.08 7,260.08 9550 PROFESSIONAL DEVELOPMENT 4,778.49 4,778.49 9552 OTHER TRAVEL AND TRAINING 6,929.63 6,929.63 9554 LOCAL BUSINESS EXPENSE 3,837.11 3.837.11 9556 **MEMBERSHIPS** 3.882.58 3,882.58 9558 SUBSCRIPTIONS AND PUBLICATIONS 74.00 74.00 9610 0.33 0.33 FEES TOTAL OTHER SERVICES & CHARGES 584,178.42 85,981.04 670,159.46 9760 **EQUIPMENT** 239.19 239.19 9765 SOFTWARE 329.77 329.77 568.96 TOTAL CAPITAL 568.96 9992 OPERATING TRANSFERS-A87 COST 163,092.00 472,279.00 635,371.00 TOTAL TRANSFERS/FEES 163,092.00 472,279.00 635,371.00 ORGANIZATIONAL UNIT TOTAL \$ 1.064.086.71 \$ 560.164.34 \$ 1,624,251.05

ORGAN	NZATIONAL UNIT: 4413- SDSF- CUST.SERV'S	5			ADJUSTED
			A	ADJUSTED	CURRENT
	EXPENDITURE SUB-OBJECT	OPERATING		COST	ANNUAL
NO.	DESCRIPTION	EXPENSES		FACTORS	EXPENSES
9990	OPERATING TRANS OUT-SUBSIDIES	\$ 2,679,512.00	\$	(120,425.92)	\$ 2,559,086.08
	TOTAL TRANSFERS/FEES	2,679,512.00	***************************************	(120,425.92)	2,559,086.08
	ORGANIZATIONAL UNIT TOTAL	\$ 2,679,512.00	\$	(120,425.92)	\$ 2,559,086.08

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.

ORGA	NIZATIONAL UNIT: 4423- WASTEWATER		AD IIIOTED	ADJUSTED
	EXPENDITURE SUB-OBJECT	OPERATING	ADJUSTED COST	CURRENT ANNUAL
NO.	DESCRIPTION	EXPENSES	FACTORS	EXPENSES
7020	PERMANENT EMPLOYEES	\$ 3,613,373.74	\$ -	\$ 3,613,373.74
7025	ACT.ASSIGNMENT	11,033.59	Ψ -	11,033.59
7023	TEMPORARY EMPLOYEES	34,741.15	~	34,741.15
7050	REGULAR HOURLY RATE	1,819.74	-	1,819.74
7055	TIME & ONE-HALF	85,738.44	-	85,738.44
7105	EMPLOYERS SOCIAL SECURITY	265,520.70	-	265,520.70
7110	HOSPITALIZATION INSURANCE	802,352.40	35,704.68	838,057.08
7115	RETIREE HEALTH CARE	563,705.91	11,330.49	575,036.40
7113	RETIREMENT FUND CONTRIBUTION	630,529.08	11,550.49	630,529.08
7125	SPECIAL PENSION BENEFITS	2,506.63	-	2,506.63
7135	UNEMPLOYMENT COMPENSATION	5,011.81		5,011.81
7150	LONGEVITY PAY	37,565.96	-	37,565.96
7165	SHIFT DIFFERENTIAL	14,395.93	-	14,395.93
XXXX	FLOOD EVENT	14,393.93	(96,840.01)	
***	TOTAL PERSONAL SERVICES	6,068,295.08	(49,804.84)	(96,840.01) 6,018,490.24
	TOTAL PERSONAL SERVICES	0,000,293.00	(49,004.04)	0,010,490.24
7260	SUPPLIES	1,433,977.04	(408,261.29)	1,025,715.75
7300	POSTAGE	228.82	-	228.82
7680	CLOTHING/CLEANING ALLOWANCE	6,994.12	-	6,994.12
7800	INVENTORY - COST OF GOODS SOLD	35,414.24	-	35,414.24
	TOTAL SUPPLIES	1,476,614.22	(408,261.29)	1,068,352.93
8140	COMPUTER SERVICES	177,848.86	(47,431.86)	130,417.00
8180	CONTRACTUAL SERVICES	4,925,887.55	(663,656.46)	4,262,231.09
8500	TELEPHONE	109,814.90	(000,000:10)	109,814.90
9000	PRINTING & PUBLISHING	1,897.56	_	1,897.56
9210	ELECTRICITY	2,387,453.97	(39,846.48)	2,347,607.49
9220	WATER	32,665.45	(00,040.40)	32,665.45
9230	NATURAL GAS	239,190.00	_	239,190.00
9300	MAINTENANCE SERVICE	230,699.28	(100,588.70)	130,110.58
9420	EQUIPMENT RENTALS OR LEASE	241,056.69	(100,000.70)	241,056.69
9440	VEHICLE RENTAL/CAR MILEAGE	3,870.50	_	3,870.50
9550	PROFESSIONAL DEVELOPMENT	2,036.25	_	2,036.25
9552	OTHER TRAVEL AND TRAINING	23,630.14		23,630.14
9554	LOCAL BUSINESS EXPENSE	100.00	_	100.00
9556	MEMBERSHIPS	6,880.31	_	6,880.31
9558	PUBLICATIONS AND SUBSCRIPTIONS	2,360.49	_	2,360.49
9610	FEES	21,097.00		21,097.00
9622	REFUSE COLLECTION CHARGES	77.94	_	77.94
3022	TOTAL OTHER SERVICES & CHARGES	8,406,566.89	(851,523.50)	7,555,043.39
		<u> </u>		
9735	BLD. ADDITIONS/IMPROVEMENTS	13,500.00	-	13,500.00
9750	FURNITURE	4,413.86	-	4,413.86
9760	EQUIPMENT	12,018.06	-	12,018.06
9765	SOFTWARE	42,716.60	_	42,716.60
	TOTAL CAPITAL	72,648.52	_	72,648.52
	ORGANIZATIONAL UNIT TOTAL	\$16,024,124.71	\$ (1,309,589.63)	\$ 14,714,535.08

ORGAN	NIZATIONAL UNIT: 442305- IND. PRETREATM	IENT		۸	.DJUSTED		ADJUSTED CURRENT
	EXPENDITURE SUB-OBJECT	C	PERATING		COST		ANNUAL
NO.	DESCRIPTION		EXPENSES	F	ACTORS	[EXPENSES
7020	PERMANENT EMPLOYEES	\$	339,884.52	\$		\$	339,884.52
7025	ACT.ASSIGNMENT		132.64		-		132.64
7055	TIME & ONE-HALF		4,860.78		-		4,860.78
7105	EMPLOYERS SOCIAL SECURITY		24,716.10		-		24,716.10
7110	HOSPITALIZATION INSURANCE		71,462.77		3,180.09		74,642.86
7115	RETIREE HEALTH CARE		49,092.40		986.76		50,079.16
7120	RETIREMENT FUND CONTRIBUTION		63,071.71		-		63,071.71
7135	UNEMPLOYMENT COMPENSATION		475.81		-		475.81
	TOTAL PERSONAL SERVICES		553,696.73		4,166.85		557,863.58
7260	SUPPLIES		30,038.47		-		30,038.47
7300	POSTAGE		1,020.42		-		1,020.42
7680	CLOTHING/CLEANING ALLOWANCE		2,276.92		-		2,276.92
	TOTAL SUPPLIES		33,335.81		-		33,335.81
0.4.0.0	0011774071141 05774050						
8180	CONTRACTUAL SERVICES		23,242.10		-		23,242.10
9000	PRINTING & PUBLISHING		712.35		-		712.35
9420	EQUIPMENT RENTALS OR LEASE		26,516.96		-		26,516.96
9552	OTHER TRAVEL AND TRAINING		518.00		-		518.00
9556	MEMBERSHIPS		743.00		-		743.00
	TOTAL OTHER SERVICES & CHARGES		51,732.41				51,732.41
9750	FURNITURE		558.28		-		558.28
	TOTAL CAPITAL		558.28		_		558.28
	ORGANIZATIONAL UNIT TOTAL	\$	639,323.23	\$	4,166.85	\$	643,490.08

ORGAN	NIZATIONAL UNIT: 4425- REPAIR & MAINTEN	IANCE		ADJUSTED
			ADJUSTED	CURRENT
	EXPENDITURE SUB-OBJECT	OPERATING	COST	ANNUAL
NO.	DESCRIPTION	EXPENSES	FACTORS	EXPENSES
7020	PERMANENT EMPLOYEES	\$ 1,187,595.17	\$ -	\$ 1,187,595.17
7025	ACT.ASSIGNMENT	2,253.79	<u></u>	2,253.79
7040	TEMPORARY EMPLOYEES	168.70	-	168.70
7055	TIME & ONE-HALF	63,715.63	-	63,715.63
7105	EMPLOYERS SOCIAL SECURITY	89,845.89	-	89,845.89
7110	HOSPITALIZATION INSURANCE	301,799.73	13,430.09	315,229.82
7115	RETIREE HEALTH CARE	189,224.06	3,803.40	193,027.46
7120	RETIREMENT FUND CONTRIBUTION	208,617.22	-	208,617.22
7125	SPECIAL PENSION BENEFITS	5,514.49	-	5,514.49
7135	UNEMPLOYMENT COMPENSATION	1,652.55	-	1,652.55
7150	LONGEVITY PAY	10,935.47	-	10,935.47
7165	SHIFT DIFFERENTIAL	208.65	-	208.65
XXXX	FLOOD EVENT		(7,100.83)	(7,100.83)
	TOTAL PERSONAL SERVICES	2,061,531.35	10,132.66	2,071,664.01
7260	SUPPLIES	225,027.84	(274.58)	224,753.26
7680	CLOTHING/CLEANING ALLOWANCE	8,339.87	(214.50)	8,339.87
1000	TOTAL SUPPLIES	233,367.71	(274.58)	233,093.13
	TO THE SOLITERES	255,567.71	(274.50)	200,090.10
8140	COMPUTER SERVICES	19,581.00	153,689.00	173,270.00
8180	CONTRACTUAL SERVICES	1,125,943.94	=	1,125,943.94
8355	CLAIMS	150,000.00	-	150,000.00
8500	TELEPHONE	12,095.42	-	12,095.42
9000	PRINTING & PUBLISHING	7,135.21	-	7,135.21
9210	ELECTRICITY	12,381.89	-	12,381.89
9220	WATER	7,458.62	-	7,458.62
9230	NATURAL GAS	12,075.57	-	12,075.57
9300	MAINTENANCE SERVICE	32,726.42	-	32,726.42
9310	HOME REPAIR	96,657.43	-	96,657.43
9330	PAVEMENT REPAIR	93,669.62	-	93,669.62
9420	EQUIPMENT RENTALS OR LEASE	1,103,150.42	-	1,103,150.42
9430	LAND RENTAL OR LEASE	4,258.53	-	4,258.53
9440	VEHICLE RENTAL/CAR MILEAGE	755.50	-	755.50
9550	PROFESSIONAL DEVELOPMENT	750.15	-	750.15
9552	OTHER TRAVEL AND TRAINING	416.96	-	416.96
9554	LOCAL BUSINESS EXPENSE	62.50	_	62.50
9556	MEMBERSHIPS	250.00	-	250.00
9610	FEES	120.00	-	120.00
	TOTAL OTHER SERVICES & CHARGES	2,679,489.18	153,689.00	2,833,178.18
9750	FURNITURE	399.00	_	399.00
9760	EQUIPMENT	43,000.13	_	43,000.13
9765	SOFTWARE	4,025.00	-	4,025.00
0,00	TOTAL CAPITAL	47,424.13		47,424.13
	ORGANIZATIONAL UNIT TOTAL	\$ 5,021,812.37	\$ 163,547.08	\$ 5,185,359.45

ORGAN	NIZATIONAL. SUMMARY			ADJUSTED
			ADJUSTED	CURRENT
	EXPENDITURE SUB-OBJECT	OPERATING	COST	ANNUAL
<u>NO.</u>	DESCRIPTION	EXPENSES	FACTORS	CURRENT
7020	PERMANENT EMPLOYEES	\$ 5,352,194.18	\$ -	\$ 5,352,194.18
7025	ACT.ASSIGNMENT	13,420.02	-	13,420.02
7040	TEMPORARY EMPLOYEES	34,909.85	-	34,909.85
7050	REGULAR HOURLY RATE	1,819.74	-	1,819.74
7055	TIME & ONE-HALF	154,314.85	-	154,314.85
7105	EMPLOYERS SOCIAL SECURITY	394,293.76	-	394,293.76
7110	HOSPITALIZATION INSURANCE	1,204,044.92	53,580.00	1,257,624.92
7115	RETIREE HEALTH CARE	833,821.15	16,759.81	850,580.96
7120	RETIREMENT FUND CONTRIBUTION	920,603.85	-	920,603.85
7125	SPECIAL PENSION BENEFITS	16,704.40	-	16,704.40
7135	UNEMPLOYMENT COMPENSATION	7,422.99	-	7,422.99
7150	LONGEVITY PAY	49,386.93	-	49,386.93
7165	SHIFT DIFFERENTIAL	14,611.88	(400 040 04)	14,611.88
XXX	FLOOD EVENT		(103,940.84)	(103,940.84)
	TOTAL PERSONAL SERVICES	8,997,548.52	(33,601.03)	8,963,947.49
7260	SUPPLIES	1,691,252.37	(408,535.87)	1,282,716.50
7300	POSTAGE	1,262.19	-	1,262.19
7680	CLOTHING/CLEANING ALLOWANCE	17,610.91	-	17,610.91
7800	INVENTORY - COST OF GOODS SOLD	35,414.24		35,414.24
	TOTAL SUPPLIES	1,745,539.71	(408,535.87)	1,337,003.84
8140	COMPUTER SERVICES	354,588.82	(41,509.82)	313,079.00
8180	CONTRACTUAL SERVICES	6,124,022.07	(527,359.46)	5,596,662.61
8355	CLAIMS	277.027.00	97,451.00	374,478.00
8450	INSURANCE PREMIUMS	191,088.98	57,451.00	191,088.98
8500	TELEPHONE	124,988.87	_	124,988.87
9000	PRINTING & PUBLISHING	19,242.30		19,242.30
9210	ELECTRICITY	2,399,835.86	(39,846.48)	2,359,989.38
9220	WATER	40,124.07	(55,646.46)	40,124.07
9230	NATURAL GAS	251,265.57	_	251,265.57
9300	MAINTENANCE SERVICE	263,425.70	(100,588.70)	162,837.00
9310	HOME REPAIR	96,657.43	(100,500.70)	96,657.43
9330	PAVEMENT REPAIR	93,669.62	_	93,669.62
9410	BUILDINGS RENTALS OR LEASE	19,258.14	_	19,258.14
9410	EQUIPMENT RENTALS OR LEASE	1,372,082.98	-	1,372,082.98
9420	LAND RENTAL OR LEASE	4,258.53	_	4,258.53
9440	VEHICLE RENTAL/CAR MILEAGE	11,886.08	_	11,886.08
9550	PROFESSIONAL DEVELOPMENT	7,564.89	_	7,564.89
9552	OTHER TRAVEL AND TRAINING	31,494.73	-	31,494.73
9554	LOCAL BUSINESS EXPENSE	3,999.61	_	3,999.61
	MEMBERSHIPS	11,755.89	-	11,755.89
9556 9558	SUBSCRIPTIONS AND PUBLICATIONS	2,434.49	-	2,434.49
9610	FEES	21,217.33	_	21,217.33
9622	REFUSE COLLECTION CHARGES	77.94	.	77.94
9022	TOTAL OTHER SERVICES & CHARGES	11,721,966.90	(611,853.46)	11,110,113.44

9735	BLD. ADDITIONS/IMPROVEMENTS	13,500.00	-	13,500.00
9750	FURNITURE	5,371.14	-	5,371.14
9760	EQUIPMENT	55,257.38	-	55,257.38
9765	SOFTWARE	47,071.37		47,071.37
	TOTAL CAPITAL	121,199.89	-	121,199.89
9992	OPERATING TRANSFERS-A87 COST	163,092.00	472,279.00	635,371.00
9990	OPERATING TRANS OUT-SUBSIDIES	2,679,512.00	(120,425.92)	2,559,086.08
	TOTAL TRANSFERS/FEES	2,842,604.00	351,853.08	3,194,457.08
	GRAND TOTAL- EXPENDITURES	\$ 25,428,859.02	\$ (702,137.28)	\$24,726,721.74



DATE:

November 14, 2013

TO:

Eric R. DeLong

Deputy City Manager

FROM:

Geri D. Eye, CPA

Utility Financial Officer

SUBJECT:

2013 SEWER RATE STUDY TASK #4

FY13 OPERATING EXPENSES - SEWAGE PUMPING STATIONS

The attached schedule allocates the direct cost for operating and maintaining system pumping and metering stations. The operating expense consists of direct labor, utilities, operating and maintenance supplies, repairs and maintenance, and vehicle rental.

The overflow regulators are components of the integrated system and subsequently not included herein.

Attachment

GDE:ss

CITY OF GRAND RAPIDS, MICHIGAN INVENTORY OF SEWAGE PUMPING/METER STATIONS FOR THE YEAR ENDED JUNE 30, 2013

	FOR THE TEAR ENDED JUNE	. 30, 2013	FY'13
Station	Physical Location	Type	Expenses
Market Avenue	Grand Rapids	Interceptor	\$275,264.99
Millbank	Grand Rapids	Local	7,678.34
Eastlake	Grand Rapids	Local	6,377.65
Eastern	Grand Rapids	Trunk	6,341.65
Middleboro	Grand Rapids	Trunk	0.00
Oak Hollow	Grand Rapids Twnsp	Local	10,687.17
Kingsbury	Walker	Trunk	13,673.40
Bona Vista	Grand Rapids	Trunk	12,215.83
Aberdeen	Grand Rapids	Local	12,272.29
O'Brien	Walker	Trunk	38,907.89
Leonard Heights	Walker	Trunk	17,116.32
Guild	Grand Rapids	Local	4,328.31
Orchard Vista	Cascade Twnsp	Local	7,649.19
Brookview	Grand Rapids	Trunk	13,462.84
Remembrance Road	Walker	Local	61,264.71
Kraft Avenue	Cascade Twnsp	Local	10,603.46
Thornapple	Cascade Twnsp	Trunk	18,888.94
Thornhills	Cascade Twnsp	Local	7,770.90
Greenbrier	Grand Rapids Twnsp	Local	10,568.09
Shore Haven	Grand Rapids Twnsp	Local	9,884.22
Ada	Ada	Local	14,154.09
Robinhood	Grand Rapids Twnsp	Local	9,575.65
Lincoln School	Grand Rapids Twnsp	Local	4,027.93
Reeds Lake Blvd.	Grand Rapids Twnsp	Local	9,918.04
6000 28th Street	Cascade Twnsp	Local	6,543.95
Ada	Ada	Meter	2,581.26
East Grand Rapids	East Grand Rapids	Meter	2,803.94
Gaines Township	Gaines Township	Meter	2,532.75
Kentwood	Kentwood	Meter	3,427.96
Rickman Avenue	Grand Rapids	Local	6,235.45
Michigan Street	Grand Rapids	Local	5,967.44
Eagle Crest	Grand Rapids Twnsp	Local	11,332.66
East Paris	Grand Rapids Twnsp Walker	Local	19,449.45
Alpine Estates Elmdale		Local Local	7,877.11 4,017.30
Collindale	Grand Rapids Walker	Local	5,577.23
Saddleback	Grand Rapids Twnsp	Local	5,481.51
Arbor Hills Lift Station	Grand Rapids Twnsp	Local	6,181.24
Cypress Trails	Grand Rapids Twnsp	Local	5,834.18
Bird Avenue	Grand Rapids Twnsp	Local	31,509.34
Valentine	Grand Rapids Twnsp	Local	4,465.33
Cascade Springs	Cascade Twnsp	Local	9,110.10
Churchill Downs	Grand Rapids	Local	9,810.30
Woodsboro Court	Grand Rapids Twnsp	Local	3,400.62
Meadowood Trails	Cascade Twnsp	Local	7,808.24
Stonebridge	Grand Rapids Twnsp	Local	4,754.81
Burton/Cacade	Cascade Twnsp	Local	20,714.75
Crahen	Grand Rapids Twnsp	Local	5,206.08
Jonathan Woods	Cascade Twnsp	Local	4,963.20
Watermark	Cascade Twnsp	Local	10,204.52
Mountain Ash	Tallmadge Twnsp	Local	7,743.85
Reeds Hollow	Grand Rapids Twnsp	Local	8,963.15
16th Avenue Lift Station	Marne	Local	6,848.32
Hayes West Lift Station	Tallmadge	Local	6,409.12
Hayes East Lift Station	Tallmadge	Local	4,237.47
8th & Leonard LS	Tallmadge	Local	4,483.82
Summit Ridge LS	Grand Rapids	Local	4,219.99
Lake Michigan Estates	Tallmadge	Local	6,029.94
			4000 050 00

\$839,358.28



DATE: October 29, 2013

TO: Geri Eye

Utility Financial Officer

FROM: Scott Buhrer

Chief Financial Officer

SUBJECT: 2013 SEWER RATE STUDY TASK #5

KNOWN COST ADJUSTMENTS

Known cost adjustments by which to adjust FY13 operating costs are listed below.

Object Level 3 – 7060, 7020, 7040, 7055, 7025, 7045, 7050, 7030, 7035, 7190

The wage increase factor to translate FY2013 actual costs to estimated calendar 2014 will be 0.0%. Collective bargaining has not concluded and therefore, at this time there is not a known cost increase for wages.

Object Level 3 - 8140/8355/9990

Administration - Adjust FY2013 actual cost to reflect adjustments in charges for central services rendered by the Information Technology Fund, the Insurance Payment Fund and the General Operating Fund.

Object Level 3 - 7105

Increase FY2013 actual FICA expense by 0.0% consistent with the known wage impacts.

Object Level 3 - 7110

The Trend Report is not completed at this time; however, we anticipate favorable results on rates. Although health care costs have been trending higher, the anticipation of favorable cost trends and three-year smoothing has limited the projected increase in health insurance to 4.45%. Increase FY2013 health insurance actual by 4.45% to reflect these anticipated rate changes.

Object Level 3 - 7115

The factor to establish calendar year 2014's retiree health care cost is 2.01%. Increase the total of fiscal year 2013's retiree health care by this percent to establish the cost for calendar year 2014.

Object Level 3 - 7120

The pension expense factor to translate FY2013 actual costs to estimated calendar 2014 will be 0.0%. Had the pension system achieved rates of return consistent with actuarial assumptions, a 16.56% increase in general pension rates would have been projected. However, the pension system achieved superior rates of return that were far in excess of the actuarial assumptions. Therefore, no cost increase in pension expense is being projected for calendar year 2014.



DATE:

October 29, 2013

TO:

Geri D. Eye, CPA

Utility Financial Officer

Michael J. Lunn Environmental Services Manager

SUBJECT: 2013 SEWER RATE STUDY TASK #5

KNOWN COST ADJUSTMENTS

Known cost adjustments by which to adjust FY13 operating costs are listed below:

ACCOUNT User Code	DESCRIPTION	AMOUNT
WWTFLD2013	WWTP Flood Protection	(\$626,263.66)
4410-8180	Utilities Competitive Assessment Project - Phases 1-3	\$137,222.00
4423-8180	GVRBA Contractual Services	(\$651,383.21)
4423-9210	Consumers Energy Efficiency Program	(\$39,846.48)



November 14, 2013

TO:

Eric R. DeLong

Deputy City Manager

FROM:

Geri D. Eye, CPA

Utility Financial Officer

SUBJECT:

2013 SEWER RATE STUDY TASK #6

The Sewage Disposal System Fund's revenues and volumes by governmental unit for the year ended June 30, 2013, are disclosed on the attached page. In addition, actual volume comparisons for the past five (5) years by governmental unit are included herein.

Attachments

GDE:ss

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND TASK NO. 6

DETERMINE SEWAGE VOLUME AND REVENUE BY GOVERNMENTAL ENTITY FOR THE YEAR ENDED JUNE 30, 2013:

			3 YR AVE BILLED VOL
RETAIL:	SA	ALES REVENUE	(GALLONS)
CITY OF GRAND RAPIDS (1) CITY OF WALKER CITY OF KENTWOOD CASCADE TOWNSHIP GRAND RAPIDS TOWNSHIP TALLMADGE TOWNSHIP WRIGHT TOWNSHIP (2)	\$	31,158,246.17 4,418,884.89 3,640,576.32 1,986,934.05 2,345,610.90 251,198.40 234,190.17	5,069,894,632 617,129,172 1,035,594,032 296,561,804 298,728,760 12,607,540 13,796,557
SUB-TOTAL RETAIL (3)	\$	44,035,640.90	7,344,312,497
WHOLESALE:			
CITY OF E. GRAND RAPIDS ADA TOWNSHIP GAINES TOWNSHIP (4)	\$	611,655.59 1,170,944.09 151,773.59	419,993,033 311,422,888 96,398,300
SUB-TOTAL WHOLESALE	\$	1,934,373.27	827,814,221
TOTAL	\$	45,970,014.17	8,172,126,718
REVENUE CLASSIFICATION:			
4410 - 607055 RETAIL SEWAGE SERVICE CHARGE 4410 - 607056 WYOMING SEWAGE SERVICE CHARGE 4410 - 607060 WHOLESALE SEWAGE SERVICE CHARGE			\$ 43,947,350.71 88,290.19 1,934,373.27
			\$ 45,970,014.17

- (1) THE VOLUME & DOLLAR AMOUNT FOR THE CITY OF WYOMING ARE INCLUDED IN THE GRAND RAPIDS TOTALS.
- (2) CHARGES TO USERS IN WRIGHT TOWNSHIP ARE BASED ON A REU (RESIDENTIAL EQUIVALENT UNIT) CHARGE, IN LIEU OF COMMODITY & MONTHLY SERVICE CHARGES, AND AS SUCH DOES NOT RECORD ANY BILLED VOLUME IN RETAIL SERVICE CHARGES TO WRIGHT TOWNSHIP. THE AMOUNT INCLUDED ABOVE REFLECTS THE ESTIMATED BILLED VOLUME BASED ON THE WWTP'S LIFT STATION PUMPING REPORT FOR FY 2013.
- (3) A REVENUE ACCRUAL OF \$(1,509,405.66) HAS BEEN PRORATED TO ALL RETAIL CUSTOMER COMMUNITIES TO ACCRUE BILLINGS FROM THE LAST READING DATE THROUGH JUNE 30, 2013, AND ADJUST FOR PREVIOUS FISCAL YEAR ACCRUAL.
- (4) GAINES TWP RATES ARE CALCULATED BASED ON MOST RECENT FISCAL YEAR BILLED VOLUME PER CONTRACT.

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND 2013 RATE STUDY TASK NO. 6

VOLUME COMPARISONS FOR FIVE (5) YEARS BY GOVERNMENTAL UNIT (INCLUDING NORTH KENT & MEIJER-ALGOMA) * VOLUME = 1,000 GALLONS

MUNICIPALITY	FY09 VOL BILLED	FY VOL BILLED	10 % CHANGE	FY VOL BILLED		FY VOL BILLED	′12 % CHANGE	FY VOL BILLED	13 % CHANGE	FY09-FY13 % CHANGE
GRAND RAPIDS	5,422,022	5,327,753	-1.74%	5,130,744	-3.70%	5,131,245	0.01%	4,947,696	-3.58%	-8.75%
WALKER	671.946	630,592	-6.15%	628,009	-0.41%	619,441	-1.36%	603,938	-2.50%	-10.12%
KENTWOOD	935,212	938,707	0.37%	1,010,318	7.63%	1,039,550	2.89%	1,056,913	1.67%	13.01%
CASCADE	324,838	287,725	-11.43%	286,529	-0.42%	302,532	5.59%	300,624	-0.63%	-7.45%
GRAND RAPIDS TWP	307,379	300,605	-2.20%	297,595	-1.00%	297,317	-0.09%	301,274	1.33%	-1.99%
TALLMADGE	14,558	13,005	-10.67%	12,739	-2.05%	12,180	-4.39%	12,904	5.94%	-11.36%
WRIGHT TWP	19,523	14,379	-26.35%	13,370	-7.02%	12,457	-6.83%	15,564	24.94%	-20.28%
EAST GRAND RAPIDS	518,933	456,699	-11.99%	444,128	-2.75%	419,817	-5.47%	396,034	-5.67%	-23.68%
NORTH KENT AREA *	*	*	N/A	*	N/A	*	N/A	*	N/A	N/A
ADA TWP	337,356	309,321	-8.31%	315,329	1.94%	309,502	-1.85%	309,437	-0.02%	-8.28%
GAINES TWP	112,141	94,689	-15.56%	101,030	6.70%	112,093	10.95%	96,398	-14.00%	-14.04%
MEIJER - ALGOMA *	*	*	N/A	*	N/A	*	N/A	*	N/A	N/A
TOTAL	8,663,908	8,373,475	-3.35%	8,239,791	-1.60%	8,256,134	0.20%	8,040,782	-2.61%	-7. 19 %

^{*} Service ended 11/08.

GRAND RAPIDS VOLUME COMPARED TO

COSTOMER COMMONTTES	FY09	FY	10	FY	11	FY	12	FY	13
VOLUME = 1,000 GALLONS	% OF TOTAL	VOL BILLED	% OF TOTAL						
GRAND RAPIDS	62.58%	5,327,753	63.63%	5,130,744	62.27%	5,131,245	62.15%	4,947,696	61.53%
CUSTOMER COMMUNITIES	37.42%	3,045,722	36.37%	3,109,047	37.73%	3,124,889	37.85%	3,093,086	38.47%
TOTAL	100.00%	8,373,475	100.00%	8,239,791	100.00%	8,256,134	100.00%	8,040,782	100.00%

^{*} Volumes were restated from previous Rate Studies to reflect actual billings without adjustment for accrued revenues.

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 7

OPERATING REVENUES OTHER THAN WASTEWATER RECEIPTS:

4423-476009 4410-607001 4423-607001 4410-607050 4410-607057 4423-642003 4423-642009 4423-642019 4410-672002	INDUSTRIAL PRETREATMENT PERMITS MISCELLANEOUS SERVICE FEES MISCELLANEOUS SERVICE FEES INSPECTION FEES - UTILITIES INDUSTRIAL DISCHARGE AUTHORIZATION SALES - OTHER SALES OF SCRAP MATERIAL INVENTORY WITHDRAWALS (SALES) INTEREST/PENALTIES ON SPEC ASSM	\$	61,136.41 3,960.00 167.20 37,740.00 500.00 518.76 2,896.83 35,550.15 7,023.10
		\$	149,492.45
CREDIT: UNDE	ERUTILIZATION OF PENALTY CREDIT FROM PREVIOUS YEAR	\$	-
OTHER OPERA	ATING REVENUES NOT INCLUDED:		
CAPITAL CON	TRIBUTION		
4410-607051	SEWAGE FRONT FOOTAGE AUDITOR'S ADJUSTMENT	\$	43,909.00
		\$	43,909.00
INTEGRATED	SYSTEM CREDITS		
4410-607053 4423-607074	INTEGRATED SEWER CONNECTION SEWAGE SURCHARGE	\$	782,106.49 1,605,631.61
		\$ 2	2,387,738.10



October 17, 2013

TO:

Geri Eye

Utility Financial Officer

FROM:

Mike Lunn

Environmental Services Manager

SUBJECT:

2013 SEWER RATE STUDY- TASK #8

No significant changes in operating levels are anticipated to take effect by January 1, 2014, which would require adjustments to operating costs for the test period.



October 17, 2013

TO:

Geri Eye

Utility Financial Officer

FROM:

Mike Lunn

Environmental Services Manager

SUBJECT:

2013 SEWER RATE STUDY- TASK #9

No significant changes in sewer revenues are anticipated to take effect by January 1, 2014, which would require an adjustment to operating revenue estimates as a whole.



November 6, 2013

TO:

Geri Eye

FROM:

Charles R. Schroeder, PER Assistant ESD Mgr.

SUBJECT:

2013 SEWER RATE STUDY - TASK #10

The following are major sewage system projects (greater than \$100,000) that for rate study purposes, should be considered operative as of January 1, 2014.

<u>Description</u>	<u>Location</u>	<u>Proj. Code</u>	<u>Cost</u>
Elmridge – Westwinde to 3 Mile Rd Elmridge – Westwinde to 3 Mile Rd Collection Sys Realtime Flow Monitor Amtrak Station Relocation Jefferson Ave – Fulton to Cherry Cherry – Eastern to Hollister Taylor & Grove Taylor & Grove	Walker Grand Rapids Integrated Grand Rapids Grand Rapids Grand Rapids Grand Rapids Grand Rapids Grand Rapids	220907-535 221241-535 221214-510 228057-510 221930-535	\$ 103,656 \$ 71,344 \$1,610,480 \$ 315,600 \$ 514,883 \$ 168,000 \$2,222,401 \$ 428,599
Kraft Ave-60 th St to 2640' N of 60 th		Contribution	\$ 214,841

CRS\crs

srs\stask10 2013

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND TASK NO. 11

"COMPUTE ACCUMULATED COST, DEPRECIATION AND DEPRECIATION EXPENSE AS OF JUNE 30, 2013"

INTEGRATED SYSTEM

	ORIGINAL COST		MULATED ECIATION	 PRECIATION EXPENSE
LAND	\$ 1,633,122	\$	-	\$ _
LAND IMPROVEMENTS	16,315,449	12,0	696,623	290,527
BUILDINGS & STRUCTURES	47,778,004	28,	578,664	878,206
PROCESS EQUIPMENT	62,187,149	32,0	045,580	1,587,398
AUXILIARY EQUIPMENT	26,447,812	23,6	646,448	350,352
MACHINERY & EQUIPMENT	4,867,536	4,6	694,933	98,070
OFFICE EQUIPMENT & FURNITURE	 628,067		619,042	 234
	\$ 159,857,139	\$ 102,2	281,290	\$ 3,204,787

NON-INTEGRATED SYSTEM

	ORIGINAL		ACCUMULATED	DEPRECIATION
	 COST		DEPRECIATION	EXPENSE
LAND	\$ 2,991,650		\$ -	\$ -
LAND IMPROVEMENTS	3,486,637		998,523	174,504
BUILDINGS & STRUCTURES	10,948,179		2,559,480	259,063
PROCESS EQUIPMENT	16,842,826		5,545,259	524,686
AUXILIARY EQUIPMENT	3,898,571		2,371,779	210,137
MACHINERY & EQUIPMENT	1,646,924		1,124,455	159,820
OFFICE EQUIPMENT & FURNITURE	68,632		68,632	-
SERVICEMAINS - GRAND RAPIDS	335,982,953		89,216, 4 87	6,325,151
SERVICEMAINS - WALKER	38,924,702		13,724,753	773,702
SERVICEMAINS - KENTWOOD	40,677,070		13,247,715	810,466
SERVICEMAINS - CASCADE TWP	19,856,940		7,195,499	397,139
SERVICEMAINS - GRAND RAPIDS TWP	17,656,529		6,251,426	345,390
SERVICEMAINS - TALLMADGE TWP	5,661,019		1,130,166	113,220
SERVICEMAINS - WRIGHT TWP	 125,288		18,793	2,506
	\$ 498,767,920		\$ 143,452,967	\$ 10,095,784
TOTAL	\$ 658,625,059	:	\$ 245,734,257	\$ 13,300,571

SOURCE: GENERAL LEDGER, AS ADJUSTED, FOR JUNE 30, 2013.

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 12

TASK 12A	DETERMINE WORKING CAPITAL NEEDS FOR MATERIALS AND SUPPLIES ON	I HAND	D.
	MATERIALS AND SUPPLIES INVENTORY AS OF JUNE 30, 2013:	\$	1,091,900
TASK 12B	DETERMINE WORKING CAPITAL NEEDS FOR PREPAYMENT OF OPERATING NO REQUIREMENT FOR PREPAYMENT OF OPERATING COSTS IS CALLED FOR IN THE ORDINARY CYCLE OF BUSINESS.	COST	S.
TASK 12C	DETERMINE CASH WORKING CAPITAL NEEDS & DETERMINE TOTAL WORKI CAPITAL NEEDS.	NG	
	MINIMUM CASH WORKING CAPITAL IS DEFINED AS THE SUM OF 90 DAYS ADJUSTED OPERATING EXPENSES.		
	ADJUSTED CURRENT ANNUAL EXPENSES = \$ 24,726,721 @ 90/365 =	\$	6,097,000
	TOTAL WORKING CAPITAL NEEDS CONSIST OF THE FOLLOWING:		
	12A INVESTMENT IN INVENTORY 12B PREPAYMENT OF OPERATING EXPENSES	\$	1,091,900
	12C 90 DAY OPERATING EXPENSES		6,097,000
		\$	7,188,900

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November 11, 2013

TO:

Geri Eye

Utility Financial Officer

FROM:

Charles R. Schroeder, P.E

Assistant Environmental Services Manager

SUBJECT:

2013 SEWER RATE STUDY- TASK #13

In 2013, none of the existing zonegated facilities received improvements and no new zonegated facilities were established within the City of Grand Rapids Sewer System. The existing zonegating maps, the "Report on Sewage Flow Allocation and Zonegating of the Sewage System for Fiscal Year 2002" (Black & Veatch, Ltd. Zonegating Report dated September 2003), and the Joint Use List were all reviewed. From that review, there are no recommended changes for zonegating of the Sewer System facilities for the 2013 Sewer Rate Study.

CRS



DATE: November 14, 2013

TO: Eric R. DeLong

Deputy City Manager

FROM: Geri D. Eye, CPA

Utility Financial Officer

SUBJECT: 2013 WATER RATE STUDY TASK #13

ZONEGATING & JOINT USE ALLOCATION METHODS

Lengths and costs of all primary and intermediate transmission mains that are zonegated were prorated based on billed flow. Jointly used storage tanks and pumping stations were also prorated based on billed flow.

GOVERNMENTAL UNIT(S)

UTILITY PARTNERS

TOTAL

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND METHODOLOGY FOR I/I & OTHER FLOW APPORTIONMENT - TASK NO. 13

	MILLION GALLONS
ANNUAL WASTEWATER TREATMENT PLANT FLOW LESS: WHOLESALE BILLED FLOW LESS: RETAIL BILLED FLOW	15,100.40 (801.87) (7,238.90)
TOTAL RETAIL I/I & OTHER FLOW	7,059.63
2.) RETAIL INFLOW FROM SEPARATED AREAS (A) RETAIL INFLOW FROM COMBINED AREAS - AMOUNT ESTIMATED (A) LESS: ANNUAL BYPASS FROM (3) PUMPING STATIONS LESS: IN-SYSTEM BYPASS & RETENTION BASIN OVERFLOW TOTAL RETAIL INFLOW	720.99 1,396.71 - (435.87) 1,681.83
3.) RETAIL INFILTRATION: TOTAL RETAIL I/I & OTHER FLOW LESS: TOTAL RETAIL INFLOW (#2)	7,059.63 (1,681.83)
LESS: MARKET AVE RETENTION BASIN (MARB) CAPTURE TOTAL RETAIL INFILTRATION & OTHER FLOW	5,377.80 (65.55) 5,312.25
4.) ALLOCATION OF RETAIL INFILTRATION & OTHER FLOW - APPORTIONED ON THE BASIS OF B&V SUMMARY OF 1997 MONITORED FLOW DATA (B)	
PRORATA SHARE OF	

(A) BASED ON RECORDED RAINFALL @ WWTP & APPORTIONED PER BLACK & VEATCH'S SUMMARY OF 1997 MONITORED FLOW DATA.

RETAIL INFILTRA-

TION & OTHER

100.0000%

100.0000%

MILLION

GALLONS

5,312.25

5,312.25

⁽B) BASED ON INFILTRATION & OTHER FLOW APPORTIONED IN PREVIOUS YEAR & ADJUSTED FOR SYSTEM ADDITIONS & IMPROVEMENTS IN EACH CUSTOMER COMMUNITY.

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND METHODOLOGY FOR I/I & OTHER FLOW APPORTIONMENT - TASK NO. 13 (CONTINUED)

5.) SUMMARY: (IN MILLION GALLONS)			INFILTRATION				
	BILLED FLOW	INFLOW	& OTHER FLOW	MARB (A)	TOTAL	PERCENT	TOTAL PLANT
GOVERNMENTAL UNIT(S)	(TASK #6)	(#2 ABOVE)	(#4 ABOVE)	(#3 ABOVE)	PLANT FLOW	OF TOTAL	FLOW (MGD)
UTILITY PARTNERS	7,944.37	1,681.83	5,312.25	64.76	15,003.21	99.3564%	41.1047
GAINES TWP	96.40	-	-	0.79	97.19	0.6436%	0.2663
TOTAL	8,040.77	1,681.83	5,312.25	65.55	15,100.40	100.0000%	41.3710

(A) BASED ON BILLED FLOW (TASK #6).



Date: July 26, 2013

To: Geri Eye, Utility Financial Officer

From: Mike Lunn / full (X mmn Environmental Services Manager

Subject: 2013 Sewer Rate Study - Wastewater Plant Flow Data

Listed below is the flow data measured in million gallons (MG) for the last two completed fiscal years. Plant flow increase by 1.2% from 14,921.10 MG treated in FY12 to 15,100.40 MG treated in FY13.

Month	FY 2011	FY 2012	FY 2013	% incr (decr)
July	1,343.33	1,338.31	1,056.41	-21.1%
August	1,169.94	1,329.91	1,088.57	-18.1%
September	1,078.00	1,095.80	947.33	-13.5%
October	1,041.49	1,132.82	1,133.31	0.0%
November	997.41	1,149.36	970.74	-15.5%
December	1,049.53	1,276.78	1,073.32	-15.9%
January	1,034.32	1,291.29	1,202.64	-6.9%
February	1,032.11	1,199.29	1,246.63	3.9%
March	1,636.36	1,486.58	1,345.58	-9.5%
April	1,671.09	1,279.82	2,014.65	57.4%
May	1,851.22	1,253.16	1,578.28	25.9%
June	1,416.77	1,087.98	1,442.94	32.6%
Total	15,321.57	14,921.10	15,100.40	1.2%

Data measured	FY 2011	FY 2012	FY 2013	% incr (decr)
Wastewater Treatment Plan (WWTP) avg. daily flow (MG)	41.977	40.880	41.371	1.2%
Rainfall recorded at WWTP (inches)	38.200	35.800	43.880	22.6%
In-system overflows (MG) (report attached)	1.579	0.343	-	-100.0%
Market Avenue Retention Basin (MARB) inflow (MG)	147.880	56.790	501.420	782.9%
Market Avenue Retention Basin (MARB) over flow (MG)	48.474	-	435.870	

cc: Mark DeClercq, City Engineer

SUMMARY FOR YEAR: FY2013

CITY OF GRAND RAPIDS, MICHIGAN RATE STUDY MONITORING REPORT OVERFLOW VOLUME SUMMARY

	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		****		West			Total
		Pumpir	g Station O	verflows	Side	In-System	Overflows	Overflow
Overflow	Rainfall	MAPS(2)	MARB(3)	Total	Ditch	Monitored	Modeled	Volume
Date	Inches(1)	MG(5)	MG	MG	MG	MG	MG	MG
4/17/2013	3.92	0.000	13.267	13.267	0.000	0.000	0.000	13.267
4/18/2013	Continued	0.000	161.084	161.084	0.000	0.000	0.000	161.084
4/19/2013	Continued	0.000	100.286	100.286	0.000	0.000	0.000	100.286
4/20/2013		0.000	43.589	43.589	0.000	0.000	0.000	43.589
4/21/2013		0.000	31.019	31.019	0.000	0.000	0.000	31.019
4/22/2013		0.000	24.658	24.658	0.000	0.000	0.000	24.658
4/23/2013		0.000	26.773	26.773	0.000	0.000	0.000	26.773
4/24/2013	1	0.000	22.095	22.095	0.000	0.000	0.000	22.095
4/25/2013		0.000	11.686	11.686	0.000	0.000	0.000	11.686
4/26/2013		0.000	1.426	1.426	0.000	0.000	0.000	1.426
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
		0.000	0.000	0.000	0.000	0.000	0.000	0.000
Totals				435.883		0.000		435.883

⁽¹⁾ Rain gauge at WWTP

⁽²⁾ Market Avenue Pumping Station

⁽³⁾ Market Avenue Retention Basin

⁽⁴⁾ MG = Million Gallons



November 11, 2013

TO:

Geri Eye

FROM:

Charles R. Schroeder, PARTIES Assistant ESD Mgr.

SUBJECT:

2013 SEWER RATE STUDY - TASK #14

Zonegating maps for the sewage system are included in the "Report on Sewage Flow Allocation and Zonegating of the Sewage System" from Black & Veatch, Ltd dated September The report also contains comprehensive information with respect to the basis for zonegating service mains and other system components, such as lift stations, that service more than one community. The zonegating model has been adjusted to recognize changes in flows related to the Saddleback Sewer project completed in 2010. All zonegating work papers are on file at the Wastewater Treatment Plant Administration Building located at 1300 Market Ave. SW. All zonegating maps are on file in the City Engineer's Office.

CRS\crs

srs\stask14 2013

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 15

COMPUTE CONSTRUCTION COST RATE BASE (DEPRECIATED PLANT, PLUS WORKING CAPITAL, LESS CSO REVENUE REQUIREMENTS FOR CSO FIXED ASSETS INCLUDED IN TASK #11/21, LESS CONTRIBUTIONS BY OTHERS).

ORIGINAL CONSTRUCTION COST	- TASK #10 - TASK #11 - TASK #16/21	\$ 5,434,963 657,820,059 (187,363,456)	\$ 475,891,566
LESS: ACCUMULATED DEPRECIATION	- TASK #10 TASK #11	\$ - 245,628,055	
	TASK #16/21	(47,066,346)	(198,561,709)
			277,329,857
WORKING CAPITAL REQUIREMENT	- TASK #12	\$ 7,188,900	
			7,188,900
			284,518,757
CONTRIBUTIONS BY OTHERS LESS: AMORTIZATION	- TASK #21	\$ 185,867,492 (120,868,900)	
			(64,998,592)
CONSTRUCTION COST RATE BASE			\$219,520,165



October 24, 2013

TO:

Eric DeLong

Deputy City Manager

FROM:

Geri D. Eye, CPA

Utility Financial Officer

SUBJECT:

2013 SEWER RATE STUDY TASK #15A

INTEGRATED SEWER CONNECTION FEES

Attached is the Integrated Sewer Connection Fee Schedule as currently provided for in Chapter 27 of the City Code, with the addition of rates to be effective on January 1, 2014. The City Commission on June 27, 2000 established fees through calendar year 2004. Beginning January 1, 2005, the integrated sewer connection fees are to be calculated on a yearly basis as part of the annual Water/Sewer Rate Study. The Consumer Price Index used to determine rates effective January 1, 2014 is as follows:

August, 2012 Index	230.379
August, 2013 Index	233.877
Increase (decrease)	3.498
Percentage increase (decrease)	1.52%

GDE\lw

Attachment

Section 2.96 <u>Integrated Sewer Connection Fee Schedule</u>

When a property owner or user is requested or required to connect to the System and has not previously paid or been assessed a connection fee, the following connection fee schedule shall apply:

Integrated Connection Base Fee Schedule

Water Meter Size (inches)	1/01/13	1/01/14
3/4 or less	\$ 2,830	\$ 2,873
1	4,730	4,798
1 1/2	9,420	9,567
2	15,080	15,313
3	33,030	33,528
4	59,430	60,333
6 and over	132,080	134,083

Except as otherwise provided in the immediately succeeding paragraph, the foregoing integrated sewer connection base fee schedule for single-family and multi-family residential dwelling units shall be adjusted upward and downward as follows: A single-family residential dwelling unit located on a parcel containing twenty thousand (20,000) square feet shall pay the applicable integrated connection fee in accordance with the forgoing schedule. When determining the square footage of a residential parcel for the purposes of determining the appropriate integrated connection fee, parcel size may be adjusted downward to take into consideration such things as wetlands, lakes, streams and other unusual characteristics of the parcel in accordance with policies approved from time to time by the Utility Advisory Board. To the extent the size of a parcel, as adjusted, is greater than or less than twenty thousand (20,000) square feet, one-half the applicable integrated connection fee will increase or decrease by the same percentage increase or decrease in the parcel above or below twenty thousand (20,000) square feet. In the case of multi-family residential dwellings, in order to determine the size of the parcel assigned to each dwelling unit for purposes of calculating the integrated connection fee to be paid by each multi-family residential dwelling unit, the total square footage of the parcel, as adjusted, on which the multi-family residential dwelling is located shall be divided by the total number of residential units. Notwithstanding any other provision in this subsection, the integrated connection fee for a single-family residential dwelling unit or multi-family residential dwelling unit shall not exceed four and one-half times the applicable base integrated connection fee set forth in foregoing schedule.

There shall be no upward adjustment in the integrated sewer service connection fee payable for a single-family residential dwelling unit connecting to the Sewer System if (a) each of the following conditions are met (1) a building permit shall have been obtained, (2) the dwelling unit shall have been constructed, and (3) a certificate of occupancy shall have been issued prior to January 1, 2000 or (b) local building permit fees have been paid to the local governmental unit prior to January 1, 2000 for a single-family residential dwelling unit to be

constructed on or after January 1, 2000. When connecting to the Sewer System, Users living in or owning such single-family residential dwelling units shall pay the applicable base integrated connection fee set forth in the Integrated Connection Base Fee Schedule adjusted downward, if applicable, in accordance with the immediate preceding paragraph.

Effective January 1, 2005 and January 1st of every year thereafter, the Integrated Sewer Connection Base Fees shall be adjusted by a percentage, which is determined by the annual change in the Consumer Price Index (the "index") calculated as follows:

- (1) The Consumer Price Index shall be that Index referred to as the Consumer Price Index, US City Average, All Urban Consumers, published by the U.S. Department of Labor-Bureau of Statistics ((1982-84)=100). In the event the method of determining the Index is substantially altered, the basis for determining the annual change thereafter shall be the Index which is most comparable to the Index described above.
- (2) For the purpose of computing the percentage change each calendar year, the Index for the month of August for the prior calendar year shall be subtracted from the Index for the immediately-preceding August. The result so obtained (if positive) shall be divided by the Index for the month of August for the prior calendar year to obtain the percentage increase which shall be applied to the then current Integrated Sewer Connection Base Fee Schedule to determine the new calendar year schedule.

The foregoing Integrated Connection fee is due and payable at the time a User receives a permit to connect to the Sewer System. A permit issued by the City to connect to the Sewer System shall expire one hundred eighty (180) days from the date the permit was issued.

The user receiving services who applies for a larger water meter than the one presently in service shall pay an Integrated Connection Fee which is the difference in cost between the meter size in service and the one applied for in accordance with the Integrated Connection Fee in effect at the time of application. No credit or rebate shall be made in the case of application for a smaller meter size.

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CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY

SEWAGE DISPOSAL SYSTEM FUND

CSO REVENUE REQUIREMENTS - TASK 16 PRINCIPAL & INTEREST ON REVENUE BONDS & SRF DEBT FOR CALENDAR YEAR 2013 - ACCRUAL BASIS

		EVENUE	-	RE	VENUE BONDS		STATE REVO	LVING FUNDS	-	ТО	TAL	TOTAL
DATE	5073-	RENCE SERIES	-	PRINCIPAL	INTEREST	EST. FEES	PRINCIPAL	INTEREST		PRINCIPAL	INTEREST	PRINCIPAL & INTEREST
07/01/14 01/01/15	N/A N/A	1998 1998	(1) (1)	\$ 1,777,248.00	\$ 470,170.42 470,170.42	\$ 1,250.00 1,250.00				\$ - 1,777,248.00	\$ 471,420.42 471,420.42	\$ 471,420.42 2,248,668.42
07/01/14 01/01/15	N/A N/A	2005 2005	(2) (2)		524,400.00 524,400.00	800.00 800.00				0.00 0.00	525,200.00 525,200.00	525,200.00 525,200.00
07/01/14 01/01/15	N/A N/A	2008 2008	(3) (3)	525,000.00	546,925.00 546,925.00	900.00 900.00				0.00 525,000.00	547,825.00 547,825.00	547,825.00 1,072,825.00
07/01/14 01/01/15	N/A N/A	2010A 2010A	(4) (4)		318,748.42 318,748.42	0.00 0.00				0.00 0.00	318,748.42 318,748.42	318,748.42 318,748.42
07/01/14 01/01/15	N/A N/A	2013 2013	(5) (5)	328,887.50	640,775.88 640,775.88	600.00 600.00				0.00 328,887.50	641,375.88 641,375.88	641,375.88 970,263.38
04/01/14 10/01/14 04/01/15	07	1993B SRF					450,000.00	2,250.00 4,500.00 0.00	(6) (6)	0.00 450,000.00 0.00	2,250.00 4,500.00 0.00	2,250.00 454,500.00 0.00
04/01/14 10/01/14 04/01/15	09	1994A SRF					610,000.00	3,050.00 6,100.00 0.00	(6) (6)	0.00 610,000.00 0.00	3,050.00 6,100.00 0.00	3,050.00 616,100.00 0.00
04/01/14 10/01/14 04/01/15	10	1994B SRF					150,000.00 150,000.00	3,000.00 3,000.00 1,500.00	(6) (6)	150,000.00 0.00 150,000.00	3,000.00 3,000.00 1,500.00	153,000.00 3,000.00 151,500.00
04/01/14 10/01/14 04/01/15	11	1995A SRF					93,388.03 82,547.13	2,925.45 3,749.67 1,874.84	(6) (6)	93,388.03 0.00 82,547.13	2,925.45 3,749.67 1,874.84	96,313.48 3,749.67 84,421.97
04/01/14 10/01/14 04/01/15	12	1995B SRF					200,000.00	3,487.50 6,975.00 2,362.50	(6) (6)	0.00 200,000.00 0.00	3,487.50 6,975.00 2,362.50	3,487.50 206,975.00 2,362.50
		(1) PROR	ATEC) AMOUNT OF 199	98 ISSUE RELATE	ED TO CSO DE	ВТ.		, ,	\$4,367,070.66	\$5,053,914.38	\$9,420,985.04

- (1) PRORATED AMOUNT OF 1998 ISSUE RELATED TO CSO DEBT.
- (2) DS ON ES CSO PORTION OF 2005 ISSUE. (\$21.355M) (3) DS ON ES CSO PORTION OF 2008 ISSUE. (\$24.805M)
- (4) DS ON ES CSO PORTION OF 2010A&B ISSUE. (\$14.05M)
- (5) PRORATED AMOUNT OF 2013 ISSUE RELATED TO CSO DEBT.
- (6) PRORATED FOR APPLICABLE THREE (3) MONTH PERIOD IN CALENDAR YEAR 2014.

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 16A

INCLUDE MAJOR PROJECT COST FOR UPCOMING SYSTEM IMPROVEMENTS (NON-INTEGRATED)

THE ESTIMATED TOTAL PROJECT COST FOR RECOMMENDED SEWAGE SYSTEM IMPROVEMENTS ARE SUMMARIZED IN THE FOLLOWING TABLE.

ITEM NO.	DESCRIPTION	ESTIMATED COST	BUDGET YEAR
1	ROBINHOOD LIFT STATION UPGRADES	530,000	2014
2	ESCSO #21	5,300,000	2014
3	ESCSO #22	2,500,000	2014
4	ESCSO #27	3,465,000	2015
5	KINGSBURY LIFT STATION REPLACEMENT	1,200,000	2015
6	ESCSO #28	3,400,000	2016
7	PLASTER CREEK SANITARY TRUNK SEWER	1,200,000	2016
8	PLASTER CREEK SANITARY TRUNK SEWER	6,750,000	2017
9	PLASTER CREEK SANITARY TRUNK SEWER	6,750,000	2018
		\$ 31,095,000	

NOTE: NONE OF THE PROJECTS ABOVE ARE INCLUDED IN RECOMMENDED REVENUE REQUIREMENTS FOR CALENDAR YEAR 2014. COSTS SHOWN ARE IN 2013 DOLLARS.

SOURCE: CHUCK SCHROEDER, ASSISTANT ENVIRONMENTAL SERVICES MANAGER, OCTOBER 2013

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 17

BONDS - PRINCIPAL & INTEREST PAYMENTS (SENIOR)

FISCAL YEAR CASH BASIS **ENDING PRINCIPAL INTEREST** PRIN & INT JUNE 30, 2014 \$ 6,550,000 \$ \$ 18,436,777 11,886,777 2015 6,485,000 12,198,995 18,683,995 2016 6,760,000 11,914,008 18,674,008 2017 18,692,227 7,075,000 11,617,227 2018 7,410,000 11,285,552 18,695,552 2019 7,785,000 10,916,477 18,701,477 2020 8,165,000 10,527,802 18,692,802 2021 8,525,000 10,116,952 18,641,952 2022 8,240,000 17,933,702 9,693,702 2023 10,770,000 9,266,602 20,036,602 2024 11,315,000 8,731,020 20.046,020 2025 11,875,000 8,166,652 20,041,652 2026 12,480,000 7,573,870 20,053,870 2027 13,110,000 6,953,086 20,063,086 2028 13,705,000 6,352,555 20,057,555 2029 9,630,000 5,722,930 15,352,930 2030 10,090,000 5,271,259 15,361,259 2031 10,565,000 4.797.792 15,362,792 2032 11,075,000 4,301,880 15,376,880 2033 11,630,000 3,751,058 15,381,058 2034 13,835,000 3,172,590 17,007,590 2035 12,265,000 2,484,011 14,749,011 2036 7,240,000 1,907,272 9,147,272 2037 1,556,837 7,590,000 9,146,837 2038 7,960,000 1,189,408 9,149,408 2039 5,555,000 821,798 6,376,798 2040 5.795.000 585,946 6,380,946 2041 6,045,000 339,886 6,384,886 2042 2,080,000 83,200 2,163,200 \$ 261,605,000 \$ 183,187,144 \$ 444,792,144

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 18

DETERMINE SEWER SYSTEM EQUITY IN THE CONSTRUCTION COST RATE BASE BY SUBTRACTING NON-CSO DEBT OUTSTANDING FROM THE TOTAL RATE BASE.

CONSTRUCTION COST RATE BASE - TASK NO. 15

\$ 219,520,165

LESS: BONDED INDEBTEDNESS (ACCRUAL) - TASK NO. 17 / 20

(140,790,466)

NET SEWER SYSTEM EQUITY

\$ 78,729,699

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE OF RETURN ON EQUITY - TASK NO. 19

AT THE APRIL 5, 1977, COMMITTEE OF THE WHOLE MEETING, THE CITY COMMISSION DECIDED THE LEVEL OF RETURN ON SEWER SYSTEM EQUITY. THE LEVEL DECIDED UPON WAS ONE PERCENT MORE THAN THE AVERAGE BOND BUYER'S INDEX OF MUNICIPAL BONDS FOR THE PREVIOUS TWELVE MONTH PERIOD.

BOND BUYER'S INDEX OF 20 MUNICIPAL BONDS

3.610% 3.640% 3.680% 3.680% 3.670% 3.550% 3.410% 3.370% 3.290%	04-Apr-13 11-Apr-13 18-Apr-13 25-Apr-13 02-May-13 09-May-13	3.960% 3.930% 3.890% 3.900% 3.770% 3.670% 3.610%
3.680% 3.680% 3.670% 3.550% 3.410% 3.370%	18-Apr-13 25-Apr-13 02-May-13 09-May-13 16-May-13	3.890% 3.900% 3.770% 3.670%
3.680% 3.670% 3.550% 3.410% 3.370%	25-Apr-13 02-May-13 09-May-13 16-May-13	3.900% 3.770% 3.670%
3.670% 3.550% 3.410% 3.370%	02-May-13 09-May-13 16-May-13	3.770% 3.670%
3.550% 3.410% 3.370%	09-May-13 16-May-13	3.670%
3.410% 3.370%	16-May-13	
3.370%		3 610%
	00 M= 40	0.01070
3.290%	23-May-13	3.700%
	30-May-13	3.840%
3.270%	06-Jun-13	3.930%
3.440%	13-Jun-13	4.160%
3.640%	20-Jun-13	4.370%
3.580%	27-Jun-13	4.630%
3.680%	04-Jul-13	4.390%
3.600%	11-Jul-13	4.550%
3.530%	18-Jul-13	4.520%
3.540%	25-Jul-13	4.770%
3.670%	01-Aug-13	4.700%
3.680%	08-Aug-13	4.730%
3.720%	15-Aug-13	4.800%
3.740%	22-Aug-13	4.910%
3.740%	29-Aug-13	4.960%
3.860%	05-Sep-13	5.030%
4.000%	12-Sep-13	4.930%
3.990%	19-Sep-13	4.660%
3.990%	26-Sep-13	4.530%
	3.580% 3.680% 3.600% 3.530% 3.540% 3.670% 3.680% 3.720% 3.740% 3.740% 3.860% 4.000% 3.990%	3.580% 27-Jun-13 3.680% 04-Jul-13 3.600% 11-Jul-13 3.530% 18-Jul-13 3.540% 25-Jul-13 3.670% 01-Aug-13 3.680% 08-Aug-13 3.720% 15-Aug-13 3.740% 22-Aug-13 3.740% 29-Aug-13 3.860% 05-Sep-13 4.000% 12-Sep-13 3.990% 19-Sep-13

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 20

DETERMINE COMPOSITE RATE OF RETURN ON CONSTRUCTION COST RATE BASE

	RATE BASE		RATE OF RETURN		ETURN ON VESTMENT
SEWER SYSTEM EQUITY IN THE CONSTRUCTION COST RATE (CCR) BASE	\$ 78,729,699	@	4.989%	=	\$ 3,927,825
SEWER SYSTEM INDEBTEDNESS (NON-CSO) IN TH CONSTRUCTION COST RATE BASE	E				
1998 ISSUE (refinanced amount of 1990 issue)	11,707,168	@	5.06%		592,383
2004 ISSUE (refinanced by 2013 issue)	215,000	@	4.97%		10,686
2005 ISSUE	25,345,000	@	4.90%		1,241,905
2008 ISSUE	39,295,000	@	4.92%		1,933,314
2010 ISSUE	29,625,000	@	5.00%	=	1,481,250
2010A&B ISSUE	10,370,000	@	4.37%		453,169
2011 SRF (amount in CCRB)	1,606,177	@	2.50%	=	40,154
2012 ISSUE (amount in CCRB)	14,777,396	@	4.48%		662,027
2013 ISSUE (refinanced amount of 2004 issue)	7,849,725	@	4.43%	=	347,743
LESS INTEREST ON BOND RESERVE ACCOUNTS	***************************************	-			(10,013)
	\$ 219,520,165	=		:	\$ 10,680,443
COMPOSITE RATE OF RETURN ON INVESTMENT			0,680,443 9,520,165	=	4.865%

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND CONSTRUCTION COST RATE BASE & RETURN ON SYSTEM INVESTMENT- TASK NO. 21- PART1 FISCAL YEAR ENDED JUNE 30, 2013

PHYSICAL LOCATION

					RETAIL					WHOLESALE		
		CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	WRIGHT	CITY OF	ADA	GAINES	
DESCRIPTION	SYSTEM	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	TOWNSHIP	TOWNSHIP	TOTAL
COST	\$ 161,467.619 \$	171,561,377	\$ 40,746,143	\$ 30,728,781	\$ 18,490,455	\$ 20.272.791	\$ 4,911,989	\$ 118,230	\$ -	\$ -	\$ -	\$ 448,297,385
LESS: ACCUMULATED DEPRECIATION	102,281,290	48,546,513	14,243,151	11,569,557	7,222,829	6,570,318	1,113,920	55,074			-	191,602,652
NET BOOK VALUE	\$ 59,186,329 \$	123,014,864	\$ 26,502,992	\$ 19,159,224	\$ 11.267,626	\$ 13,702,473	\$ 3,798,069	\$ 63,156	\$ -	\$ -	\$ -	\$ 256,694,733
WORKING CAPITAL REQUIREMENT	4,533,034	1,636,194	343,773	236,443	157,796	214,732	25,952	21,854	4,170	11,358	3,594	7,188,900
	\$ 63,719,363 \$	124,651,058	\$ 26,846,765	\$ 19,395,667	\$ 11,425,422	\$ 13,917,205	\$ 3,824,021	\$ 85,010	\$ 4,170	\$ 11,358	\$ 3,594	\$ 263,883,633
CONTRIBUTIONS	47,634,621	53,930,512	22,991,822	23,206,586	16,592,805	14,150,997	4,560,073	-	-	-	-	183,067,416
LESS AMORTIZATION	(42,082,139)	(42,973,583)	(10,012,154)	(10,815,146)	(6,920,900)	(5,583,416)	(979, 101)	-		-	-	(119,366,439)
	\$ (5,552,482) \$	(10,956,929)	\$ (12,979,668)	\$ (12,391,440)	\$ (9,671,905)	\$ (8,567,581)	\$ (3,580,972)	\$ -	\$ -	\$ -	\$ -	\$ (63,700,977)
CONSTRUCTION COST RATE BASE	\$ 58,166,881 \$	113,694,129	\$ 13,867,097	\$ 7,004,227	\$ 1,753,517	\$ 5,349,624	\$ 243,049	\$ 85,010	\$ 4,170	\$ 11,358	\$ 3,594	\$ 200,182,656
RETURN ON INVESTMENT- TASK 20 4.865%	\$ 2,829,819 \$	5,531,219	\$ 674,634	\$ 340,756	\$ 85,309	\$ 260,259	\$ 11,824	<u>\$ 4,136</u>	\$ 203	\$ 553	\$ 175	\$ 9,738,887
				;	ZONEGATED							
COST	s - s	(1,966,083)	\$ 8,333,388	\$ 2,825,570	\$ 4,653,101	\$ 5,366,103	\$ 753,413	\$ 1,343,190	\$ 252.987	\$ 5,172,448	S 860.064	\$ 27,594,181
LESS: ACCUMULATED DEPRECIATION	-	(994,726)	2,186,133	1,476,629	1,129,863	1,364,124	88,692	308,297	238,896	728,494	432,655	6,959,057
NET BOOK VALUE	S - S	(971,357)	\$ 6,147,255	\$ 1,348,941	\$ 3,523,238	\$ 4,001,979	\$ 664,721	\$ 1,034,893	\$ 14,091	\$ 4,443,954	S 427,409	\$ 20,635,124
WORKING CAPITAL REQUIREMENT		(, , , , ,			-,,			,,		, ,,,,	,	
	S - S	(971,357)	\$ 6,147,255	\$ 1,348,941	\$ 3,523,238	\$ 4,001,979	\$ 664,721	\$ 1,034,893	\$ 14,091	\$ 4,443,954	\$ 427,409	\$ 20,635,124
CONTRIBUTIONS	-	-	10,447	1,393,618	311.845	117,315	159	192		193,621	772,879	2,800,076
LESS AMORTIZATION	-	~	(10,447)	(780,426)	(174.633)	(66,620)	(159)	(192)	-	(108,428)	(361,556)	(1,502,461)
	S - S	-	S -	\$ (613,192)	\$ (137,212)	\$ (50,695)	\$ -	\$ -	\$ -	\$ (85,193)	\$ (411,323)	\$ (1,297,615)
CONSTRUCTION COST RATE BASE	S - S	(971,357)	\$ 6,147,255	\$ 735,749	\$ 3,386,026	\$ 3,951,284	\$ 664,721	\$ 1,034,893	\$ 14,091	\$ 4,358,761	\$ 16,086	\$ 19,337,509
RETURN ON INVESTMENT- TASK 19/21	<u>\$</u> - <u>\$</u>	(82,458)	\$ 521,840	\$ 62,458	\$ 287,440	\$ 335,424	\$ 56,428	\$ 87,852	\$ 1,196	\$ 370,015	\$ 783	\$ 1,640,978
RETURN ON INVESTMENT: TASK 19/21	8.489%	8.489%	8.489%	8.489%	8.489%	8.489%	8.489%	8.489%	8.489%	8.489%	4.865%	
TOTAL RETURN ON INVESTMENT	\$ 2,829,819 \$	5,448,761	\$ 1,196,474	\$ 403,214	\$ 372,749	\$ 595,683	\$ 68,252	\$ 91,988	\$ 1,399	\$ 370,568	\$ 958	\$ 11,379,865

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND CONSTRUCTION COST & ACCUMULATED DEPRECIATION- TASK NO. 21- PART2 FISCAL YEAR ENDED JUNE 30, 2013

CONSTRUCTION COST

						RETAIL					WHOLESALE		
		INTEGRATED	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	WRIGHT	CITY OF	ADA	GAINES	
COST CENTER BY PHYSICAL LOCATION- TASK 11	AMOUNT	\$YSTEM \$ 159,857,139	GR \$ 368,594,069	\$42,313,798	\$40,677,070	* 20,555,597	TOWNSHIP \$20,413,075	* 6,017,965	* 196,346	EAST GR	TOWNSHIP S -	TOWNSHIP \$ -	TOTAL
ADD: IN SERVICE- TASK 10		1,610,480	3,720,827	103,656	\$40,077,070	\$ 20,555,597	320,413,075	\$ 0,017,900	\$ 196,346	\$ -	\$ -	\$ -	\$658,625,059 5,434,963
MARNE CONNECTOR AGREEMENT		1,510,100	(211,573)	100,500				(515.311)	(78,116)				(805,000)
SADDLEBACK SEWER			(1,187.160)		1,115,707	71,453			,				-
TASK 11/16/21- CSO FA AMT			(187,363.456)										(187,363,456)
LIFT STATIONS / CHAMBERS:													
FULLER-BROOKVIEW	\$ 1,252,893		(572.823)	-	-	-	572,823	-	-	-	-	-	*
FULTON- MIDDLEBORROW WEALTHY ST EXT, CHAMBER	37,983 458,953		(37,407) (96,169)	90,565	-	-	37,407	5,604	-	-	•	-	-
WEALTHY	20,444		(12,401)	12,084	-		-	36	281		-		_
MARKET	12,965,095		(2,363,406)	1.914,296		-	384,674	29.171	35,265	-	-	-	-
VANPORTFLIET / LEONARD HTS	1,239,326		249,191	(249,191)	-	÷	*	-		-	-	-	-
REMEMBRANCE / 3 MILE 16th AVENUE	1,213,244 71,058		-	(141,355)	=		-	15,954	125,401	•	-	-	-
HAYES- WEST	141,105		-	_	=	-	=	(141,105)	141,105	-	18	-	
HAYES- EAST	215,841			=	-	-	-	-	-	Ē	-	*	-
O'BRIEN	546,532		16,401	(47,608)	-	-	-	31,207	-	-	-	-	-
SERVICEMAINS			(11,140,799)	5,083,286	(8,238,426)	2,516,506	4,230,915	221,881	1,041,138	252,987	5.172,448	860,064	-
ADJUSTED BY ZONEGATING		\$ 161,467,619	\$ 169,595,294	\$49,079,531	\$33,554,351	\$ 23,143,556	\$25,638,894	\$ 5,665,402	\$ 1,461,420	\$ 252,987	\$ 5,172,448	\$ 860,064	\$475,891,566
ZONEGATING ADJUSTMENT		\$ -	\$ (1,966,083)	\$ 8,333,388	\$ 2,825,570	\$ 4,653,101	\$ 5,366,103	\$ 753,413	\$ 1,343,190	\$ 252,987	\$ 5,172,448	\$ 860,064	\$ 27,594,181
PHYSICAL LOCATION		\$ 161,467,619	\$ 171,561,377	\$40,746,143	\$30,728,781	\$18,490,455	\$20,272,791	\$ 4,911,989	\$ 118,230	\$ -	\$ -	\$ -	\$448,297,385
					ACCUMULAT	ED DEPRECIAT							
					ACCOMULA	ED DEFRECIAT	1014						
BY PHYSICAL LOCATION- TASK 11		\$ 102,281,290	\$ 100,264,078	\$14,537,608	\$13,247,715	\$ 7,371,147	\$ 6,688,157	\$ 1,279,823	\$ 64,439	\$ -	\$ -	\$ -	\$245,734,257
ADD: IN SERVICE- TASK 10 MARNE CONNECTOR AGREEMENT		≘	(130,526)	-	=	•	=	(47,770)	(9,365)				(187,661)
SADDLEBACK SEWER			(130,320)		77.172	4.287		(47,770)	(5,303)				81,459
TASK 11/16/21- CSO ACC DEP			(47,066,346)		,	.,							(47,066,346)
LIFT STATIONS / CHAMBERS:													
FULLER-BROOKVIEW	\$ 606,434		(277,262)	-	-	-	277,262	-	-	-	-	-	-
FULTON- MIDDLEBORROW	37,253		(36,688)		-	-	36,688		-	-	-	-	-
WEALTHY ST EXT. CHAMBER WEALTHY	124,529 20.444		(26,093) (12,401)	24,573 12.084	-	-	•	1,520 36	281	-	•	-	-
MARKET	4,724,856		(861,294)	697,625	-	-	140,186	10,631	12,852	-	-	-	-
VANPORTFLIET / LEONARD HTS	131,192		26,379	(26,379)	-	-	-	-	-	-	-	-	-
REMEMBRANCE / 3 MILE	375,850		-	(43,790)	*	-	-	4,942	38,848	-	-	-	-
16th AVENUE	45,646							(70 E10)	70.510				
HAYES- WEST HAYES- EAST	70,518 79,139		-	-	-	-	-	(70,518)	70,518				
O'BRIEN	235,009		7,053	(20,472)	-		-	13,419	-	-		-	-
SERVICEMAINS			(4,335,113)	1,248,035	(278,701)	977,258	792,149	10,529	185,798	238,896	728,494	432,655	-
ADJUSTED BY ZONEGATING		\$ 102,281,290	\$ 47,551,787	\$16,429,284	\$13,046,186	\$ 8,352,692	\$ 7,934,442	\$ 1,202,612	\$ 363,371	\$ 238,896	\$ 728,494	\$ 432,655	\$198,561,709
ZONEGATING ADJUSTMENT		S -	\$ (994,726)	\$ 2,186,133	\$ 1,476,629	\$ 1,129,863	\$ 1,364,124	\$ 88,692	\$ 308,297	\$ 238,896	\$ 728,494	\$ 432,655	\$ 6,959,057
PHYSICAL LOCATION		\$ 102,281,290	\$ 48,546,513	\$14,243,151	\$11,569,557	\$ 7,222,829	\$ 6,570,318	\$ 1,113,920	\$ 55,074	\$ -	\$ -	\$ -	\$191,602,652

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CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND CONTRIBUTIONS & AMORTIZED CONTRIBUTIONS- TASK NO. 21- PART3 FISCAL YEAR ENDED JUNE 30, 2013

CONTRIBUTIONS BY OTHERS

								RETAIL						WHOLESALE			
0007.051175			IN.	ITEGRATED	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	WRIGHT		CITY OF	ADA		SAINES	
COST CENTER		AMOUNT		SYSTEM	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	_TOWNSHI		EAST GR	TOWNSHIP		WNSHIP	TOTAL
2012 RATE STUDY (LOCATION)			\$	47,596,435	\$ 52,744,450	\$ 22,991.822	\$22,912,579	\$ 16,592,805	\$ 13,696,694	\$ 4,560,073	\$ -	S	-	\$ -	S	-	\$181,094,858
ADDITIONS;																	
CONNECTION & FRONT FOOT FEES FIXED ASSET CONTRIBUTIONS				20.400	19,316	-	-	-	24,593	-		-	-	-		-	43,909
FIXED ASSET CONTRIBUTIONS			•	38,186 47,634,621	1,166,746 \$ 53,930,512	\$ 22,991,822	294,007 \$23,206,586	\$ 16,592,805	\$ 14,150,997	\$ 4,560,073	<u>s</u> -	- -		<u>s</u> -	_		1,928,649 \$183,067,416
PLASTER CREEK INTERCEPTOR			Ş	47,034.021	\$ 55,950,512	\$ 22,551,022	323,200,000	3 10,092,000	\$ 14,100,997	\$ 4,560,073	3 -	ې		3 -	3	-	\$103,007,410
GRANT	\$	2,244,621				÷	1,393,618	311.845	115,216	_			_	193,621		60,313	
INTERCEPTOR	•	1,314,819			_	-	-	-		_		_	-	130,021		712.566	
LIFT STATION		70,753				10,447	-	-	2,099	159	19	2		-		-	
ADJUSTED BY ZONEGATING			\$	47,634,621	\$ 53,930,512	\$ 23,002,269	\$24,600,204	\$ 16,904,650	\$ 14,268,312	\$ 4,560,232	\$ 19	2 \$	-	\$ 193,621	S	772,879	\$183,067,416
ZONEGATING ADJUSTMENT			\$	-	\$ -	\$ 10,447	\$ 1,393,618	\$ 311,845	\$ 117,315	\$ 159	\$ 19	\$	-	\$ 193,621	S	772,879	\$ -
PHYSICAL LOCATION			\$	47,634,621	\$ 53,930,512	\$ 22,991,822	\$23,206,586	\$ 16,592,805	\$ 14,150,997	\$ 4,560,073	S -		-	S -	\$	-	\$183,067,416
												-					
							AMORTIZED C	ONTRIBUTIONS									
							AMONTIZED	ONTRIBOTIONS									
2012 RATE STUDY (LOCATION)			S	41.127.065	\$ 41.900.387	\$ 9,585,349	\$10.356.050	S 6.589.044	\$ 5,308,158	\$ 887.854	S -	S	-	S -	S		\$115,753,907
CURRENT YEAR ADJUSTMENT				955.074	1,073,196	426,805	459.096	331,856	275.258	91.247	-		-			-	3,612,532
			S	42,082,139	\$ 42,973,583	\$ 10,012,154	\$10,815,146	\$ 6,920,900	\$ 5,583,416	\$ 979,101	\$ -	- <u>-</u>		\$ -	\$		\$119,366.439
PLASTER CREEK INTERCEPTOR			v	12,002,100	0 +2,510,000	0 10,012,101	\$10,010,140	\$ 0,0£0,000	0 0,000,410	0 0/0,101	•	·		•	Ψ		\$110,000,400
GRANT	S	1,256,988				-	780,426	174,633	64,521	_			-	108,428		33,775	
INTERCEPTOR		604,817			-	-		-		-			-			327,781	
LIFT STATION		70,753				10,447	-	=	2,099	159	19	2	-	-		-	
ADJUSTED BY ZONEGATING			S	42,082,139	\$ 42,973,583	\$ 10,022,601	\$11,595,572	\$ 7,095,533	\$ 5,650,036	\$ 979,260	s 19	<u> </u>	; .	\$ 108,428	\$	361,556	\$119,366.439
ZONEGATING ADJUSTMENT			S	-	\$ -	\$ 10,447	\$ 780,426	\$ 174,633	\$ 66,620	\$ 159	\$ 19	= ==	-	\$ 108,428		361,556	\$ -
PHYSICAL LOCATION			S	42,082,139	\$ 42,973,583	\$ 10,012,154	\$10,815,146	\$ 6,920,900	\$ 5,583,416	\$ 979,101	\$ -	= -	-	\$ -	S	-	\$119,366,439

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND RECONCILIATION OF CONSTRUCTION COST & ACCUMULATED DEPRECIATION- PHYSICAL LOCATION & ZONEGATING FISCAL YEAR ENDED JUNE 30, 2013

					TOOAL TEAR	11020 00112 00	, 2070						
		INTEGRATED	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	WRIGHT	CITY OF	WHOLESALE ADA	GAINES	-
COST CENTER	AMOUNT	SYSTEM	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	TOWNSHIP	TOWNSHIP	TOTAL
CONSTRUCTION COST- BY PHYSICA	L LOCATION:												
BY PHYSICAL LOCATION- TASK 11		\$ 159,857,139	\$ 375,866,372	\$ 38,924,702	\$40,677,070	\$ 19,856,940	\$17,656,529	\$ 5,661,019	\$ 125,288	\$ -	\$ -	s -	\$ 658,625,059
IN SERVICE- TASK 10		1,610,480	3,720,827	103,656	-	-	-			-	-		5,434,963
MARNE CONNECTOR AGREEMENT		-	(211,573)	~	4 445 707	74.450	-	(515,311)	(78,116)	-	-	-	(805,000)
SADDLEBACK SEWER			(1,187,160)		1,115,707	71,453							(187,363,456)
TASK 11/16/21- CSO COST O'BRIEN			(187,363,456) (546,532)	546.532									(167,363,456)
VANPORTFLIET / LEONARD HTS			(1,239,326)	1,239.326									-
REMEMBRANCE / 3 MILE			(1,213,244)	1,213,244									
16th AVENUE			(71,058)						71,058				-
HAYES- WEST			(141,105)					141,105					-
HAYES- EAST			(215,841)					215,841					-
KINGSBURY	\$ 323,154		(323, 154)	323,154		00.044							-
MEADOWOOD TRAILS OAK HOLLOW	66,841 66,840		(66,841) (66,840)			66,841	66,840						-
COLLINDALE	66,840		(66,840)	66,840			00,840						-
THORNAPPLE	224,216		(224,216)	00,040		224,216							_
6000 28TH ST	111,401		(111,401)			111,401							-
THORNHILLS	118,407		(118,407)			118,407							-
ROBINHOOD	178,399		(178,399)				178,399						-
CASCADE SPRINGS	65,478		(65,478)			65,478							•
SHOREHAVEN	72,602		(72,602)				72,602						-
EAGLECREST	152,332 48,486		(152,332)				152,332 48,486						-
GREENBRIER LINCOLN SCHOOL	153,651		(48,486) (153,651)				153,651						-
REEDS LAKE	962,898		(962,898)				962.898						_
KRAFT	72,602		(72,602)			72,602	002,000						-
ORCHARD VISTA	39,712		(39,712)			39,712							-
BIRD AVE-ALPINE ESTATES	797,860		(797,860)				797,860						~
EAST PARIS	323,478		(323.478)				323,478						-
SERVICE MAINS	IDO DUV LOO		(00,000,400)	/40 040 000	(40 707 000)	(0.040.404)	(4.40.457)	(FOO CCE)					(E0.000.040)
LESS: SERVICE MAINS- TOTAL SU ADD: SERVICE MAINS- TOTAL ADI			(22,308.498) 10.317.168	(13,840,328) 12,169,017	(19,707,869) 8,643,873	(2,312.401) 175,806	(140,457) 173	(590,665)	-	-	-	-	(58,900,218) 31,306,037
TOTAL- PHYSICAL LOCATION COS	ST.	\$ 161,467,619	\$ 171,561,377	\$40,746,143	\$30,728,781	\$ 18,490,455	\$ 20,272,791	\$ 4,911,989	\$ 118,230	\$ -	\$ -	\$ -	\$ 448,297,385
CONSTRUCTION COST- ZONEGATIN	G:												
LIFT STATIONS / CHAMBERS:			70 0001										
FULLER-BROOKVIEW	\$ 1,252,893		(572,823)	-	-	~	572,823	-	-	-	-	-	-
FULTON- MIDDLEBORROW WEALTHY ST EXT, CHAMBER	37,983 458,953		(37,407) (96,169)	90,565	-	-	37,407	5,604	-	-	-	-	-
WEALTHY WEALTHY	20,444		(12,401)	12.084			_	36	281		_	_	-
MARKET	12,965,095		(2,363,406)	1,914,296	-	-	384,674	29.171	35.265	_	-	_	_
VANPORTFLIET / LEONARD HTS	1,239,326		249,191	(249,191)		*	-	-	-	-	-	-	-
REMEMBRANCE / 3 MILE	1,213,244		-	(141.355)	-	-	-	15,954	125,401	-	-	-	-
16th AVENUE	71,058		-	-	-	-	-	-	-	-	-	~	-
HAYES- WEST	141,105		-	-	-	-	•	(141,105)	141,105	-	-	-	an.
HAYES- EAST	215,841		40.404	- 47.000	-	-	-	- 24 007	-	-	-	-	-
O'BRIEN	546,532		16,401	(47,608)	-	-	-	31,207	-	ē	-	-	-
SERVICEMAINS- ZONEGATED COST			850,531	6,754,597	2,825,570	4,653,101	4,371,199	812,546	1,041,138	252,987	5,172,448	860,064	27,594,181
TOTAL- ZONEGATED COST		\$ -	\$ (1,966,083)	\$ 8,333,388	\$ 2,825,570	\$ 4,653,101	\$ 5,366,103	\$ 753,413	\$ 1,343,190	\$ 252,987	\$ 5,172,448	\$ 860,064	\$ 27,594,181
GRAND TOTAL- COST		\$ 161,467,619	\$ 169,595,294	\$49,079,531	\$33,554,351	\$ 23,143,556	\$25,638,894	\$ 5,665,402	\$ 1,461,420	\$ 252,987	\$ 5,172,448	\$ 860,064	\$ 475,891,566
													_

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND RECONCILIATION OF CONSTRUCTION COST & ACCUMULATED DEPRECIATION-PHYSICAL LOCATION & ZONEGATING FISCAL YEAR ENDED JUNE 30, 2013

						RETAIL					WHOLESALE		- TOTAL
COST CENTER	AMOUNT	INTEGRATED SYSTEM	CITY OF GR	CITY OF WALKER	CITY OF KENTWOOD	CASCADE TOWNSHIP	GR TOWNSHIP	TALLMADGE TOWNSHIP	WRIGHT TOWNSHIP	CITY OF EAST GR	ADA TOWNSHIP	GAINES TOWNSHIP	
ACCUMULATED DEPRECIATION-BY	PHYSICAL LOCA	TION:											
BY PHYSICAL LOCATION- TASK 11 IN SERVICE- TASK 10		\$ 102,281,290	\$ 101,884,615	\$ 13,724.753	\$13,247,715	\$ 7,195,499	\$ 6,251,426	\$ 1,130,166	\$ 18.793	\$ -	\$ -	\$ -	\$ 245,734,257
MARNE CONNECTOR AGREEMENT SADDLEBACK SEWER		•	(130,526)	-	- - 77,172	4.287	-	(47,770)	(9,365)	-	-	-	(187,661)
TASK 11/16/21- CSO ACC. DEPRE	CIATION		(47,066,346)		11,112	4.207							81,459 (47,066,346)
O'BRIEN			(235,009)	235,009									-
VANPORTFLIET REMEMBRANCE / 3 MILE			(131,192)	131,192									-
16th AVENUE			(375.850) (45.646)	375.850					45,646				
HAYES- WEST			(70,518)					70.518	45,040				-
HAYES- EAST			(79,139)					79,139					_
KINGSBURY	\$ 64,120		(64, 120)	64,120									-
MEADOWOOD TRAILS	6,684		(6,684)			6.684							-
OAK HOLLOW	6,684		(6,684)				6,684						-
COLLINDALE	6,684		(6,684)	6,684		70.045							-
THORNAPPLE	76,315		(76,315)			76,315							-
6000 28TH ST THORNHILLS	14,853 23,681		(14.853) (23.681)			14,853 23,681							9
ROBINHOOD	41,626		(41,626)			25,001	41,626						
CASCADE SPRINGS	30.556		(30,556)			30,556	41,020						
SHOREHAVEN	16,940		(16,940)			00,000	16.940						_
EAGLECREST	30,466		(30,466)				30,466						
GREENBRIER	8,081		(8,081)				8,081						-
LINCOLN SCHOOL	21,895		(21,895)				21.895						-
REEDS LAKE	124,893		(124,893)				124.893						*
KRAFT	16,940		(16,940)			16,940							-
ORCHARD VISTA	6,619		(6,619)			6.619							-
BIRD AVE-ALPINE ESTATES	89,103		(89, 103)				89,103						-
EAST PARIS	97,043		(97,043)				97,043						-
SERVICE MAINS LESS: SERVICE MAINS- TOTAL SU	IDS BUY LOC		(9,450,208)	(2,446,471)	(3,180,886)	(234,275)	(117,984)	(118,133)					(15,547,957)
ADD: SERVICE MAINS- TOTAL AD			4,929,516	2,152,014	1,425,556	81,671	145	(110,133)	-			-	8,588,902
		\$ 102,281,290	S 48,546,514	\$ 14,243,151	\$11,569,557	\$ 7,222,830	\$ 6,570,318	\$ 1,113,920	\$ 55,074	\$ -	<u>\$ -</u>	\$ -	\$ 191,602,654
ACCUMULATED DEPRECIATION- ZC	NEGATED												
LIFT STATIONS / CHAMBERS:													
FULLER-BROOKVIEW	\$ 606,434		(277,262)	-	-	-	277,262	-	-	*	-	-	
FULTON- MIDDLEBORROW	37,253		(36,688)	~	-	-	36,688	-	-	-	-	-	-
WEALTHY ST EXT. CHAMBER	124,529		(26,093)	24,573	-	-	-	1,520	-		-	-	-
WEALTHY	20,444		(12,401)	12,084	-	-		36	281	-	-	~	-
MARKET	4,724,856		(861,294)	697,625	-	-	140,186	10,631	12,852	-	•	-	-
VANPORTFLIET REMEMBRANCE / 3 MILE	131,192		26,379	(26,379)	-	-	-	4.040	20.040	-	-	•	
16th AVENUE	375,850 45,646		-	(43,790)	-	-	-	4,942	38,848	-	-	-	-
HAYES- WEST	70,518		-	-	-	-	-	(70.518)	70,518	-	-	-	•
HAYES- EAST	79,139		-	-	=	-	-	(10.310)	10,316		-	-	-
O'BRIEN	235.009		7.053	(20,472)	-	-	-	13,419	-	-	-	*	-
SERVICEMAINS-ZONEGATED ACC. D			185.580	1.542,492	1,476.629	1,129,863	909,988	128,662	185,798	238,896	728.494	432,655	6,959,057
TOTAL- ZONEGATED ACC. DEPRI	ECIATION	\$ -	S (994,726)	\$ 2,186,133	\$ 1,476,629	\$ 1,129,863	\$ 1,364,124	\$ 88,692	\$ 308,297	\$ 238,896	\$ 728,494	\$ 432,655	\$ 6,959,057
GRAND TOTAL- ACC. DEPRECIAT	ION	\$ 102,281,290	\$ 47,551,788	\$ 16,429,284	\$13,046,186	\$ 8,352,693	\$ 7,934,442	\$ 1,202,612	\$ 363,371	\$ 238,896	\$ 728,494	\$ 432,655	\$ 198,561,711
STARD TO TAL AGO. DEFILEDATION		\$ 102,201,230	ψ 41,001,100	♥ 10,723,204	010,040,100	Q 0,002,000	0 7,004,442	9 1,202,012	0 000,071	<u> </u>	3 120,434	U 702,000	0 100,001,711

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CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND ADJUSTED OPERATING EXPENSE ZONEGATING ALLOCATION BY GOVERNMENTAL UNIT - TASK #22 FISCAL YEAR ENDED JUNE 30, 2013

	ADJUSTED					RETAIL					WHOLESALE	
COST CENTER	EXPENSE BY COST CENTER	INTEGRATED SYSTEM	CITY OF GR	CITY OF WALKER	CITY OF KENTWOOD	CASCADE TOWNSHIP	GR TOWNSHIP	TALLMADGE TOWNSHIP	WRIGHT TOWNSHIP	CITY OF EAST GR	ADA TOWNSHIP	GAINES TOWNSHIP
WASTEWATER TREATMENT	\$ 13,924,033	\$ 13,924,033	OIL	TTALITE	TENTIOOD	1011101111	1000110	1044101111	1011101111	<u> </u>	1011101111	1041101111
LIFT STATIONS: A. INTERCEPTOR B. TRUNK C. LOCAL COLLECTOR	259,244 113,588 406,985		211.987 28.701 57,360	38,277 59.208 63,648	-	17,790 80.400	7,692 5,797 151,852	583 2,092 21.945	705 - 18,450	- - -	- - 13,330	- - -
SEWER LINES: A. INTERCEPTOR B. TRUNK C. LOCAL COLLECTOR D. ZONEGATING	276,639 591,598 4,317,122		165,341 201,150 2,705,756 (125,541)	39,521 152,644 532,474 27,053	64,684 139,037 421,006 (22,363)	7,093 50,156 255,833 34,717	31,739 328,403 39,063	16,186 47,920 (10,123)	- 686 25.730 16,586	- - - 10,695	20,819	- - 9,094
BULK METERING STATIONS	10,685		-	-	3,228		-	-	*	2,641	2,431	2,385
CUSTOMER ACCOUNTING * INDUSTRIAL PRETREATMENT	2,559,086 643,490	643,490	2,013,464	192,008	154,185	61,213	125,523	4,734	7,959			
SUBTOTAL OPERATING EXPENSE ADMINISTRATIVE EXPENSE	23,102,470 1,624,251	14,567,523 1,024,190	5,258,218 369,686	1,104,833 77,677	759,777 53,417	507,202 35,659	690,069 48,516	83,337 5,859	70,116 4,930	13,336 938	36,580 2,572	11,479 807
TOTAL	\$ 24,726,721	\$ 15,591,713	\$ 5,627,904	\$ 1,182,510	\$ 813,194	\$ 542,861	\$ 738,585	\$ 89,196	\$ 75,046	\$ 14,274	\$ 39,152	\$ 12,286

^{*} Reflects adjustment for circuit breaker provisions per the third amendment to W/S service agreements.

METHOD OF DIS	TRIBUTION
---------------	-----------

WASTEWATER TREATME	NT	100.000%	100.00%										
LIFT STATIONS:	(53)												
A. INTERCEPTORS B. TRUNK C. LOCAL	(1) (7) (45)	100.000% 100.000% 100.000%		(1) (3) (9)	(3) (3)	-	(1) (9)	- (17)	- - (5)	- (1)	-	- (1)	-
SEWER LINES: TOTAL MILES:	906.63												
A. INTERCEPTOR MILES	48.37	100.000%		59.768% 28.91	14.286% 6.91	23.382% 11.31	2.564% 1.24	0.000%	0.000%	0.000%	0.000% -	0.000%	0.000%
B. TRUNK LINES MILES	103.44	100.000%		34.001% 35.17	25.802% 26.69	23.502% 24.31	8.478% 8.77	5.365% 5.55	2.736% 2.83	0.116% 0.12	0.000%	0.000%	0.000%
C. LOCAL COLLECTOR MILES D. ZONEGATING	754.82	100.000%		62.675% 473.08	12.334% 93.10	9.752% 73.61	5.926% 44.73	7.607% 57.42	1.110% 8.38	0.596% 4.50	0.000%	0.000% -	0.000%
BULK METERING STATIONS	MILES (4)			(21.95)	4.73	(3.91) (1)	6.07	6.83	(1.77) -	2.90	1.87 (1)	3.64 (1)	1.59 (1)
CUSTOMER ACCTG (1) NO. OF METERS	74,053.00	100.000%		78.679% 58,265.00	7.503% 5,556.00	6.025% 4,462.00	2.392% 1,771.00	4.905% 3,632.00	0.185% 137.00	0.311% 230.00			
INDUSTRIAL PRETREATM	!ENT	100.000%	100.00%										
ADMINISTRATIVE EXPEN	SE (2)	100.000%	63.056%	22.760%	4.782%	3.289%	2.195%	2.987%	0.361%	0.304%	0.058%	0.158%	0.050%

NOTES:

- (1) MAINTENANCE & COLLECTION COSTS ARE ALLOCATED ON THE NUMBER OF METERS, INCLUSIVE OF USERS FOR WRIGHT TWP.
- (2) ALLOCATED ON DIRECT OPERATING EXPENSE, ADJUSTED FOR ANY COST ASSIGNABLE EXCLUSIVELY TO GR OR RETAIL COMMUNITIES, IF APPLICABLE.

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 23

ASSIGN OTHER OPERATING REVENUES TO EACH GOVERNMENTAL ENTITY.

BASIS OF ALLOCATION: RETAIL BILLINGS BY GOVERNMENTAL ENTITY - TASK NO. 6 & 7

		RETAIL BILLINGS	PERCENTAGE OF TOTAL	ALI	OCATION
CITY OF GRAND RAPIDS	\$	31,158,246	70.7570%	\$	105,776
CITY OF WALKER		4,418,885	10.0348%		15,001
CITY OF KENTWOOD		3,640,576	8.2673%		12,359
CASCADE TOWNSHIP		1,986,934	4.5121%		6,745
GRAND RAPIDS TOWNSHIP		2,345,611	5.3266%		7,963
TALLMADGE TOWNSHIP		251,198	0.5704%		853
WRIGHT TOWNSHIP		234,190	0.5318%		795
	\$ 44,035,640		100.0000%	\$	149,492

CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND ASSIGN DEPRECIATION EXPENSE TO CUSTOMER COMMUNITIES- TASK NO. 24 FISCAL YEAR ENDED JUNE 30, 2013

						RETAIL					WHOLESALE		
	DEPRECIAT		CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	WRIGHT	CITY OF	ADA	GAINES	
COST CENTER	EXPENSI		GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	TOWNSHIP	TOWNSHIP	TOTAL
BY PHYSICAL LOCATION- TASK 11 ADD: IN SERVICE- TASK 10 MARNE CONNECTOR AGREEMENT SADDLEBACK SEWER		\$ 3,204,787 107,365	\$ 7,456,383 74,417 (12,959)	\$ 900,002 2,073	\$ 810,466 - 22,313	\$ 420,428	\$ 392,779	\$ 113,220 - (10,307)	\$ 2,506 (1,563)	\$ -	\$ -	\$ -	\$ 13,300,571 183,855 (24,829) 23,742
LESS: TASK 11/16/21- CSO DEP. EXP.			(3,781.238)										(3,781,238)
LIFT STATIONS / CHAMBERS: FULLER-BROOKVIEW (GR)	\$ 46,6	40	(21,328)				21.328						
FULTON- MIDDLEBORO (GR)		83	(180)	-	-	-	180	-	-	-	-	-	-
WEALTHY ST EXT. CHAMBER	11,3		(2,372)	2,234	-	=	160	138		-	-	•	-
WEALTHY OF EXTRICITATION OF THE WEALTHY	: 1,0	-	(2,312)	2,254	-		-	130	-		-		-
MARKET	500,2		(91,193)	73.863			14,843	1,126	1,361			_	
VANPORTFLIET	34.9		7,036	(7,036)			17,073	1,120	1,501	_			
REMEMBRANCE / 3 MILE	62,6		7.000	(7,299)		_		824	6,475			_	
O'BRIEN	15,6		470	(1,365)		_	-	895	0,473				_
KINGSBURY	10,7		170	(1,000)				000					
MEADOWOOD TRAILS	2.2												
OAK HOLLOW	2,2												
COLLINDALE	2,3												
THORNAPPLE	7.4												
6000 28TH ST	3,												
THORNHILLS	3,9												
ROBINHOOD	5,9												
CASCADE SPRINGS	2,												
SHOREHAVEN	2.4	20											
EAGLECREST	5,0	78											
GREENBRIER	1,6	16											
LINCOLN SCHOOL	5,	21											
REEDS LAKE:	24,9	79											
KRAFT	2.4	20											
ORCHARD VISTA	1,3	24											
16TH AVE	4,5		(4,565)	-	-		-	-	4,565	-	-	-	
HAYES- WEST	7,0	52	(7,052)	-	-	-	-	-	7,052	-	÷	-	-
HAYES- EAST	9,8		(9,893)	-	•	-	-	9,893	-	-	-	-	-
BIRD AVE-ALPINE ESTATES	23,	58	(23,258)				23,258						
EAST PARIS	10,3	83	(10,783)				10,783						
SERVICEMAINS			(201,160)	92,330	(169,947)	49,169	82,132	4,401	20.651	2,719	102,728	16,977	-
ADJUSTED BY ZONEGATING LESS CONTRIBUTIONS AMORTIZED		3,312,152	3,372,325	1,054,802	662,832	471,026	545,303	120,190	41,047	2,719	102,728	16,977	9,702,101
TASK NO. 21		(955,074)	(1,073,196)	(426,805)	(444,845)	(331,856)	(275,258)	(91,247)				(14.251)	(3,612,532)
TOTAL		\$ 2,357,078	\$ 2,299,129	\$ 627,997	\$ 217,987	\$ 139,170	\$ 270,045	\$ 28,943	\$ 41,047	\$ 2,719	\$ 102,728	\$ 2,726	\$ 6,089,569

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CITY OF GRAND RAPIDS, MICHIGAN SEWAGE DISPOSAL SYSTEM FUND ACCUMULATE REVENUE REQUIREMENTS BY CUSTOMER COMMUNITIES- TASK NO. 25 FISCAL YEAR ENDED JUNE 30, 2013

					RETAIL					WHOLESALE		
	INTEGRATED	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	WRIGHT	CITY OF	ADA	GAINES	
COST CENTER	SYSTEM	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	TOWNSHIP	TOWNSHIP	TOTAL
OPERATION & MAINTENANCE												
EXPENSE- TASK NO. 22	\$ 15.591,713	\$ 5,627,904	\$ 1,182,510	\$ 813,194	\$ 542,861	\$ 738,585	\$ 89,196	\$ 75.046	\$ 14,274	\$ 39,152	\$ 12,286	\$ 24,726,721
DEPRECIATION EXPENSE												
TASK NO. 24	2,357,078	2,299,129	627,997	217,987	139,170	270,045	28,943	41,047	2,719	102,728	2,726	6,089,569
RETURN ON SYSTEM INVESTMENT												
TASK NO. 21	2,829,819	5,448,761	1,196,474	403,214	372,749	595,683	68,252	91,988	1,399	370,568	958	11.379,865
REVENUE CREDITS- TASK NO. 23		(105,776)	(15,001)	(12,359)	(6,745)	(7,963)	(853)	(795)				(149,492)
CSO DEBT SERVICE REQUIREMENTS		9,420,985										9,420,985
ALLOCATE:												
INTEGRATED SYSTEM CREDITS		(1,428,952)	(227,373)	(310,176)	(133,038)	(103,449)	(12,044)	(6,683)	(85,590)	(80.433)	*	(2,387,738)
INTEGRATED SYSTEM (A)	(20,778,610)	12,355,031	1,965,912	2,681,842	1,150,269	894,445	104,131	57,783	740.027	695,439	133,731	•
LESS: CIRCUIT BREAKER (B)			-	(97,609)	(5,651)	(14,861)	(11,000)	(4,577)				(133,698)
	\$ -	\$ 33,617,082	\$ 4,730,519	\$ 3,696,093	\$ 2,059,615	\$ 2,372,485	\$ 266,625	\$ 253,809	\$ 672,829	\$ 1,127,454	\$ 149,701	\$ 48,946,212

(A) ALLOCATED TO CUSTOMER COMMUNITIES UNDER OLD CONTRACT BASIS OF PLANT FLOW. REMAINING ALLOCATION TO UAB PARTNERS UNDER UNIFORM SERVICE AGREEMENTS BASED ON PLANT FLOW & LAND, AS NOTED BELOW:
(B) PURSUANT TO CITY AND CUSTOMER COMMUNITY CIRCUIT BREAKER, AS PROVIDED FOR BY THE THIRD AMENDMENT TO THE UNIFORM SERVICE AGREEMENTS.

	CITY OF	CITY OF	CITY OF	CASCADE	GR	TALLMADGE	WRIGHT	CITY OF	ADA	GAINES	
	GR	WALKER	KENTWOOD	TOWNSHIP	TOWNSHIP	TOWNSHIP	TOWNSHIP	EAST GR	TOWNSHIP	TOWNSHIP	TOTAL
OLD METHOD- PLANT FLOW	\$ -	\$ -	\$ -	S -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 133,731	\$ 133,731
NEW METHOD- PLANT FLOW / LAND	12,355,031	1,965,912	2,681,842	1,150,269	894,445	104,131	57,783	740,027	695,439		20,644,879
	\$ 12,355,031	\$ 1,965,912	\$ 2,681,842	S 1,150,269	\$ 894,445	\$ 104,131	\$ 57,783	\$ 740,027	\$ 695,439	\$ 133,731	\$ 20,778,610

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWER SUPPLY SYSTEM FUND TASK NO. 25a

REVIEW THE REVENUE REQUIREMENTS TO ASSURE COMPLIANCE WITH THE APPLICABLE BOND ORDINANCE PROVISIONS.

	YEAR ENDED 6/30/13	PRO FORMA *
REVENUES: RETAIL/WHOLESALE SEWAGE SERVICE CONNECTION FEES/FRONT FOOT FEES SEWAGE SURCHARGES OTHER OPERATING REVENUES INTEREST ON INVESTMENTS MISCELLANEOUS	\$ 45,970,014 826,015 1,605,632 142,469 187,867 726,759	\$ 46,603,816 705,000 2,370,900 855,600 120,000 20,000
TOTAL REVENUES	\$ 49,458,756	\$ 50,675,316
OPERATING EXPENSES: OPERATIONS & MAINTENANCE DEPRECIATION TOTAL EXPENSES	\$ 24,784,036 13,300,710 \$ 38,084,746	\$ 25,510,815 13,300,710 \$ 38,811,525
ADDITIONS: DEPRECIATION	13,300,710	13,300,710
NET EARNINGS OF THE SYSTEM	\$ 24,674,720	\$ 25,164,500
DEBT SERVICE (CASH BASIS)		
SERIES 2013 BONDS SERIES 2012 BONDS SERIES 2010A&B BONDS (after BAB subsidy) SERIES 2010 BONDS SERIES 2008 BONDS SERIES 2005 BONDS SERIES 2004 BONDS SERIES 1998 BONDS SERIES 1998 BONDS SENIOR LIEN JUNIOR LIEN **	\$ - 297,326 1,254,920 1,481,250 4,395,238 2,953,006 1,992,738 4,400,025 16,774,503 3,902,242 \$ 20,676,745	\$ 1,537,188 2,161,450 1,277,483 1,481,250 4,393,863 2,954,881 224,850 4,405,813 18,436,778 4,127,903 \$ 22,564,681
COVERAGE RATIO - SENIOR DEBT	1.47	1.36
COVERAGE RATIO - ALL DEBT	1.19	1.12

^{*} SEWAGE SERVICES ADJUSTED FOR RATE REVISIONS OF -2.46% AND 2.46% EFFECTIVE 1/1/13 AND 1/1/14, RESPECTIVELY; OTHER REVENUES AND OPERATIONS & MAINTENANCE EXPENSE PER 2014 FISCAL PLAN, ADJUSTED FOR CARRYFORWARDS.

^{**} AMOUNTS IN PRO FORMA ARE BASED ON MAXIMUM PRINCIPAL AND DO NOT INCLUDE PRINCIPAL FORGIVENESS.

SUMMARY

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 26

INITIAL SYSTEM REVENUE REQUIREMENTS		\$ 49,079,910
REVENUES FROM CURRENT RATES		
REU CHARGE	\$ 247,040	
MONTHLY METER CHARGE	13,447,127	
MONTHLY BILLING CHARGE	3,379,591	
COMMODITY CHARGE	30,695,052	(47,768,810)
INITIAL REQUIRED REVENUE INCREASE (DECREASE)		\$ 1,311,100
INITIAL PERCENTAGE INCREASE (DECREASE) OVER E	EXISTING RATES	2.74%
INITIAL SYSTEM REVENUE REQUIREMENTS FROM ABOVE LESS: AMOUNT OF CIRCUIT BREAKER RELIEF TO REDUCE RR SYSTEM REVENUE REQUIREMENTS	s TO RETAIL	\$ 49,079,910 (133,698) \$ 48,946,212
ACTUAL REQUIRED AMOUNT OF REVENUE INCREASE	(DECREASE)	\$ 1,177,402

ACTUAL PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES

2.46%

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 26

	EQUIV.	CITY	F GR	CITY OF V	VALKER	CITY OF KE	NTWOOD	CASCAD	E TWP	GR T	WP	TALLMAD	GE TWP	WRIGHT	TWP
METER SIZE	FACTOR	METERS *	EQUIV.	METERS *	EQUIV.	METERS *	EQUIV.	METERS *	EQUIV.	METERS *	EQUIV.	METERS *	EQUIV	USERS*	REU
A 3/4" or less	1.0000	54,336	54,336	4,972	4,972	3,464	3,464	1,346	1,346	3,280	3,280	114	114		-
B 1"	1.7778	2,212	3,932	345	613	466	828	215	382	235	418	14	25	-	-
C 1 1/4"	2.7778	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D 1 1/2"	4.0000	855	3,420	142	568	309	1,236	141	564	75	300	3	12	-	-
E 2"	7.1111	673	4,786	78	555	188	1,337	60	427	32	228	3	21	-	-
F 3"	16.0000	91	1,456	8	128	17	272	6	96	6	96	2	32	-	-
G 4"	28.4444	84	2,389	9	256	15	427	3	85	3	85	1	28	-	-
H 6" and over	64.0000	14	896	2	128	3	192	-	-	1	64	-	-	-	-
Other- Wright Tw	ıp	N/A	N/A	N/A	N/A_	N/A	N/A	N/A	N/A	N/A_	N/A_	N/A	N/A_	230	332.687
		58,265	71,215	5,556	7,220	4,462	7,756	1,771	2,900_	3,632	4,471	137	232	230	332.687
TOTAL												Northwest Land		74,053	

^{*} Source: City of Grand Rapids Water/Sewer Customer Accounts/Meters Report, October 31, 2013.

CITY OF GRAND RAPIDS, MICHIGAN

SYSTEM REVENUE REQUIREMENTS		\$ 33,617,082
REVENUES FROM CURRENT RATES		
MONTHLY METER CHARGE 71,215 meter equivalents x \$ 10.04 x	12 = \$ 8,579,983	
MONTHLY BILLING CHARGE 58,265 meters x \$ 3.15 x	12 = 2,202,417	
COMMODITY CHARGE 6,777,934 units (100 CF) x \$ 3.26	= 22,096,065	 (32,878,465)
REQUIRED REVENUE INCREASE (DECREASE)		\$ 738,617
PERCENTAGE INCREASE (DECREASE) OVER EXIS	2.25%	

CITY OF GRAND RAPIDS, MICHIGAN

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS

\$ 33,617,082

NEW COMMODITY CHARGE 6,777,934 x \$ 3.21

\$ 21,757,168

NEW MONTHLY BILLING CHARGE

58,265 x \$ 2.88 x 12

2,013,638

(23,770,806)

\$ 9,846,276

MONTHLY METER CHARGE =
$$\frac{\$9,846,276}{71,215 \times 12}$$
 = $\frac{\$11.52}{12}$ MONTHLY

		MONT				
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PR	ESENT
3/4" or less	1.0000	\$ 11.52	\$ 2.88	\$ 14.40	\$	13.19
1"	1.7778	20.48	2.88	23.36		21.00
1 1/4"	2.7778	32.00	2.88	34.88		31.04
1 1/2"	4.0000	46.08	2.88	48.96		43.31
2"	7.1111	81.92	2.88	84.80		74.55
3"	16.0000	184.32	2.88	187.20		163.79
4"	28.4444	327.68	2.88	330.56		288.73
6" and over	64.0000	737.28	2.88	740.16		645.71

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

CITY OF WALKER, MICHIGAN

SYSTEM REVENUE REQUIREMENTS								\$ 4,730,519
REVENUES FROM CURRENT RATES								
MONTHLY METER CHARGE 7,220 meter equivalents	x	\$	25.97	x	12 =	\$	2,250,041	
MONTHLY BILLING CHARGE 5,556 meters	x	\$	3.15	x	12 =		210,017	
COMMODITY CHARGE 825,039 units (100 CF)	x	\$	2.62		=		2,161,602	 (4,621,660)
REQUIRED REVENUE INCREASE	(DE	ECF	REASE)	١				\$ 108,859
PERCENTAGE INCREASE (DECR	EAS	SE)	OVER	EXI	STING	RA	TES	2.36%

CITY OF WALKER, MICHIGAN

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

PRESENT CHARGE X RATE ADJUSTMENT

\$ 2.68 /100 CF *

\$ 2.62 x 102.36%

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS

\$ 4,730,519

NEW COMMODITY CHARGE

825,039 x \$ 2.68

\$ 2,211,105

NEW MONTHLY BILLING CHARGE

5,556 x \$ 2.88 x 12

192,015

(2,403,120)

\$ 2,327,399

MONTHLY METER CHARGE = $\frac{\$2,327,399}{7,220 \times 12}$ = $\frac{\$26.86}{12}$ MONTHLY

		MONT			
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRESENT
3/4" or less	1.0000	\$ 26.86	\$ 2.88	\$ 29.74	\$ 29.12
1"	1.7778	47.75	2.88	50.63	49.32
1 1/4"	2.7778	74.61	2.88	77.49	75.29
1 1/2"	4.0000	107.44	2.88	110.32	107.03
2"	7.1111	191.00	2.88	193.88	187.83
3"	16.0000	429.76	2.88	432.64	418.67
4"	28.4444	764.02	2.88	766.90	741.85
6" and over	64.0000	1,719.04	2.88	1,721.92	1,665.23

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

CITY OF KENTWOOD, MICHIGAN

SYSTEM REVENUE REQUIREMENTS *							\$	3,696,093
REVENUES FROM CURRENT RATES								
MONTHLY METER CHARGE 7,756 meter equivalents x	\$	3.52	x	12 =	\$	327,613		
MONTHLY BILLING CHARGE 4,462 meters x	\$	3.15	x	12 =		168,664		
COMMODITY CHARGE 1,384,484 units (100 CF) x	\$	2.24		=		3,101,244		(3,597,521)
REQUIRED REVENUE INCREASE (DI	ECR	EASE)					\$	98,572
PERCENTAGE INCREASE (DECREAS	SE)	OVER	EXIS	STING	RA ⁻	ES		2.74%
* REFLECTS RELIEF FROM CI	IRCL	JIT BRI	ΞΑΚ	ER, IN	TH	E AMOUNT OF	- \$	97,609

CITY OF KENTWOOD, MICHIGAN

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

PRESENT CHARGE x RATE ADJUSTMENT

\$ 2.30 /100 CF *

\$ 2.24 x 102.74%

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS **

\$ 3,696,093

NEW COMMODITY CHARGE 1,384,484 x \$ 2.30

\$ 3,184,313

NEW MONTHLY BILLING CHARGE

4,462 x \$ 2.88 x 12

____154,207_

(3,338,520)

\$ 357,573

MONTHLY METER CHARGE =
$$\frac{\$357,573}{7,756}$$
 = $\frac{\$3.84}{12}$ MONTHLY

		MONT				
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRESENT	
3/4" or less	1.0000	\$ 3.84	\$ 2.88	\$ 6.72	\$ 6.67	
1"	1.7778	6.83	2.88	9.71	9.41	
1 1/4"	2.7778	10.67	2.88	13.55	12.93	
1 1/2"	4.0000	15.36	2.88	18.24	17.23	
2"	7.1111	27.31	2.88	30.19	28.18	
3"	16.0000	61.44	2.88	64.32	59.47	
4"	28.4444	109.23	2.88	112.11	103.27	
6" and over	64.0000	245.76	2.88	248.64	228.43	

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

^{**} REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF \$ 97,609

CASCADE TOWNSHIP

SYSTEM REVENUE REQUIREMENTS * LESS: CASH CONTRIBUTION	\$	2,059,615
SYSTEM REVENUE REQUIREMENTS	\$	2,059,615
REVENUES FROM CURRENT RATES		
MONTHLY METER CHARGE 2,900 meter equivalents x \$ 27.20 x 12 = \$ 946,560		
MONTHLY BILLING CHARGE 1,771 meters		
COMMODITY CHARGE 396,473 units (100 CF) x \$ 2.50 = 991,183		(2,004,687)
REQUIRED REVENUE INCREASE (DECREASE)	\$	54,928
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES		2.74%
* REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT O	DF \$	5,651

CASCADE TOWNSHIP

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

PRESENT CHARGE x RATE ADJUSTMENT \$ 2.57 /100 CF * \$ 2.50 x 102.74%

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS ** \$ 2,059,615

NEW COMMODITY CHARGE

396,473 x \$ 2.57 \$ 1,018,936

NEW MONTHLY BILLING CHARGE

1,771 x \$ 2.88 x 12 <u>61,206</u> (1,080,142) \$ 979,473

MONTHLY METER CHARGE = $\frac{\$979,473}{2,900 \times 12}$ = \$28.15 MONTHLY

METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRESENT
3/4" or less	1.0000	\$ 28.15	\$ 2.88	\$ 31.03	\$ 30.35
1"	1.7778	50.05	2.88	52.93	51.51
1 1/4"	2.7778	78.20	2.88	81.08	78.71
1 1/2"	4.0000	112.60	2.88	115.48	111.95
2"	7.1111	200.18	2.88	203.06	196.57
3"	16.0000	450.40	2.88	453.28	438.35
4"	28.4444	800.71	2.88	803.59	776.84
6" and over	64.0000	1,801.60	2.88	1,804.48	1,743.95

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

^{**} REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF \$ 5,651

GRAND RAPIDS TOWNSHIP

SYSTEM REVENUE REQUIREMENTS * LESS: CASH CONTRIBUTION	\$ 2,372,485 (3,200)
SYSTEM REVENUE REQUIREMENTS	\$ 2,369,285
REVENUES FROM CURRENT RATES	
MONTHLY METER CHARGE 4,471 meter equivalents x \$ 23.51 x 12 = \$ 1,261,359	
MONTHLY BILLING CHARGE 3,632 meters x \$ 3.15 x 12 = 137,290	
COMMODITY CHARGE 399,370 units (100 CF) x \$ 2.28 = 910,564	 (2,309,213)
REQUIRED REVENUE INCREASE (DECREASE)	\$ 60,072
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES	 2.60%
* DEEL FOTO DELLEE EDOM OLDOUIT DDE ALCED. IN THE AMOUNT OF	
* REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF	\$ 14,861

GRAND RAPIDS TOWNSHIP

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

\$ 2.34 /100 CF * PRESENT CHARGE x RATE ADJUSTMENT

\$ 2.28 x 102.60%

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS ** NET OF CONTRIBUTION OF \$ 3,200

NEW COMMODITY CHARGE

399,370 x \$ 2.34 \$ 934,526

NEW MONTHLY BILLING CHARGE

3,632 x \$ 2.88 x 12 125,522 (1,060,048)

\$ 1,309,237

\$ 2,369,285

\$1,309,237 MONTHLY METER CHARGE = $\frac{\$1,309,237}{4,471 \times 12}$ = \$ 24.40 MONTHLY

		MON1	ARGE		
METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRESENT
3/4" or less	1.0000	\$ 24.40	\$ 2.88	\$ 27.28	\$ 26.66
1"	1.7778	43.38	2.88	46.26	44.95
1 1/4"	2.7778	67.78	2.88	70.66	68.46
1 1/2"	4.0000	97.60	2.88	100.48	97.19
2"	7.1111	173.51	2.88	176.39	170.33
3"	16.0000	390.40	2.88	393.28	379.31
4"	28.4444	694.04	2.88	696.92	671.88
6" and over	64.0000	1,561.60	2.88	1,564.48	1,507.79

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

^{**} REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF \$ 14,861

TALLMADGE TOWNSHIP

SYSTEM REVENUE I LESS: CASH CON									\$	266,625
SYSTEM REVENUE									\$	266,625
REVENUES FROM C	URRENT RATES									
MONTHLY MET	ER CHARGE 232 meter equivalents	x	\$	29.30	x	12 =	\$	81,571		
MONTHLY BILL	ING CHARGE 137 meters	x	\$	3.15	x	12 =		5,179		
COMMODITY C 16	HARGE ,855 units (100 CF)	x	\$	10.25		=		172,764		(259,514)
REQUIRE	D REVENUE INCREASE	E (DE	ΞC	REASE;)				\$	7,111
PERCENT	GAGE INCREASE (DECR	REAS	SE)	OVER	EXI	STING	RAT	ΓES		2.74%
* RI	EFLECTS RELIEF FROM	/I CII	RC	UIT BR	EAK	ER, IN	THE	E AMOUNT OF	- \$	11,000

TALLMADGE TOWNSHIP

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

COMMODITY CHARGE:

PRESENT CHARGE x RATE ADJUSTMENT

\$ 10.53 /100 CF *

\$ 10.25 x 102.74%

MONTHLY SERVICE CHARGE:

SYSTEM REVENUE REQUIREMENTS **

266,625

NEW COMMODITY CHARGE

16,855 x \$ 10.53

177,483

NEW MONTHLY BILLING CHARGE

137 x \$ 2.88 x 12

4,735

(182,218)

84,407 \$

MONTHLY METER CHARGE = -- = \$ 30.32 MONTHLY232 x 12

METER SIZE	EQUIVALENT	METER	BILLING	TOTAL	PRESENT
3/4" or less	1.0000	\$ 30.32	\$ 2.88	\$ 33.20	\$ 32.45
1"	1.7778	53.90	2.88	56.78	55.24
1 1/4"	2.7778	84.22	2.88	87.10	84.54
1 1/2"	4.0000	121.28	2.88	124.16	120.35
2"	7.1111	215.61	2.88	218.49	211.51
3"	16.0000	485.12	2.88	488.00	471.95
4"	28.4444	862.43	2.88	865.31	836.57
6" and over	64.0000	1,940.48	2.88	1,943.36	1,878.35

^{*} NEW RATES EFFECTIVE, ON A PRO-RATA BASIS, JANUARY 1, 2014

^{**} REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF \$ 11,000

WRIGHT TOWNSHIP

SYSTEM REVENUE REQUIREMENTS * LESS: CASH CONTRIBUTION	\$ 253,809 (10,000)
SYSTEM REVENUE REQUIREMENTS	\$ 243,809
REVENUES FROM CURRENT RATES	
REU CHARGE 332.687 meter equivalents x \$ 61.88 x 12 = \$ 247,040	
MONTHLY METER CHARGE 332.687 meter equivalents x \$ - x 12 = -	
MONTHLY BILLING CHARGE 230 meters x \$ - x 12 = -	
COMMODITY CHARGE 18,445 units (100 CF) x \$ - =	 (247,040)
REQUIRED REVENUE INCREASE (DECREASE)	\$ (3,231)
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES	 -1.31%
* REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF	\$ 4,577

WRIGHT TOWNSHIP

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

MONTHLY REU CHARGE:

SYSTEM REVENUE REQUIREMENTS ** _ \$243,809	\$243,809		61.07	MONTHLY REU CHARGE *
TOTAL REU'S * 12 MONTHS 332.687 x	12	Ψ		MONTHET NEW CHANGE
SYSTEM REVENUE REQUIREMENTS ARE NET OF CONTRIBUTION OF	\$ 10,000			

EXAMPLES OF APPROXIMATE MONTHLY CHARGE BY NUMBER OF REU:

NUMBER OF REU	AMOUNT	NUMBER OF REU	AMOUNT	NUMBER OF REU	AMOUNT
1.0000	\$ 61.07	7.5000	\$ 458.03	19.0000	\$ 1,160.33
1.5000	91.61	8.0000	488.56	20.0000	1,221.40
2.0000	122.14	8.5000	519.10	25.0000	1,526.75
2.5000	152.68	9.0000	549.63	30.0000	1,832.10
3.0000	183.21	9.5000	580.17	35.0000	2,137.45
3.5000	213.75	10.0000	610.70	40.0000	2,442.80
4.0000	244.28	11.0000	671.77	50.0000	3,053.50
4.4000	268.71	12.0000	732.84	60.0000	3,664.20
4.5000	274.82	13.0000	793.91	70.0000	4,274.90
5.0000	305.35	14.0000	854.98	80.0000	4,885.60
5.5000	335.89	15.0000	916.05	90.0000	5,496.30
6.0000	366.42	16.0000	977.12	100.0000	6,107.00
6.5000	396.96	17.0000	1,038.19	150.0000	9,160.50
7.0000	427.49	18.0000	1,099.26	200.0000	12,214.00

^{*} NEW RATES EFFECTIVE ON JANUARY 1, 2014

4,577

^{**} REFLECTS RELIEF FROM CIRCUIT BREAKER, IN THE AMOUNT OF

CITY OF EAST GRAND RAPIDS, MICHIGAN

INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ 654,437
COMMODITY CHARGE 419.993 units x \$ 1,396.00	586,310
REQUIRED COMMODITY REVENUE INCREASE (DECREASE)	\$ 68,127
NON-INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ 18,392
MONTHLY SERVICE CHARGE \$1,604 x 12 MONTHS	19,248
REQUIRED SERVICE REVENUE INCREASE (DECREASE)	\$ (856)
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES	11.11%

CITY OF EAST GRAND RAPIDS, MICHIGAN

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

SYSTEM REVENUE REQUIREMENTS \$ 672,829

NEW COMMODITY CHARGE * (654,349)

18,480

MONTHLY SERVICE CHARGE * = \$ 18,480 / 12 = \$1,540

* NEW RATES EFFECTIVE ON JANUARY 1, 2014

ADA TOWNSHIP

INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ 615,006
COMMODITY CHARGE 311.423 units x \$ 1,763.00	 549,039
REQUIRED COMMODITY REVENUE INCREASE (DECREASE)	\$ 65,967
NON-INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ 512,448
MONTHLY SERVICE CHARGE \$45,912 x 12 MONTHS	550,944
REQUIRED SERVICE REVENUE INCREASE (DECREASE)	\$ (38,496)
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES	 2.50%

ADA TOWNSHIP

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

SYSTEM REVENUE REQUIREMENTS \$ 1,127,454

NEW COMMODITY CHARGE *

311.423 x \$ 1,975.00 = (615,060)

\$ 512,394

MONTHLY SERVICE CHARGE * = \$512,394 / 12 = \$42,700

* NEW RATES EFFECTIVE ON JANUARY 1, 2014

GAINES TOWNSHIP

INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ 133,731
COMMODITY CHARGE 96.398 units x \$ 1,310.00	 126,281
REQUIRED COMMODITY REVENUE INCREASE (DECREASE)	\$ 7,450
NON-INTEGRATED SYSTEM REVENUE REQUIREMENTS	\$ 15,970
MONTHLY SERVICE CHARGE \$1,574 x 12 MONTHS	18,888
REQUIRED SERVICE REVENUE INCREASE (DECREASE)	\$ (2,918)
PERCENTAGE INCREASE (DECREASE) OVER EXISTING RATES	3.12%

GAINES TOWNSHIP

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RATE ANALYSIS - TASK NO. 27

SYSTEM REVENUE REQUIREMENTS

\$ 149,701

NEW COMMODITY CHARGE * 96.398 x \$ 1,387.00 =

(133,704)

\$ <u>15,</u>997

MONTHLY SERVICE CHARGE * = \$ 15,997 / 12 = \$1,333

* NEW RATES EFFECTIVE ON JANUARY 1, 2014



DATE:

October 7, 2013

TO:

Geri Eye

Utility Financial Officer

FROM:

Rick DeVries, P.E.

Assistant City Engineer

SUBJECT:

SEWER RATE STUDY - TASK NO. 28 AND 29

Enclosed are the Front Foot Rates for Sanitary Sewer (Task 28) and the costs for Sanitary Sewer Laterals (Task 29), for the Fiscal Year 2013.

RDV

Enclosures

CC:

Jack Stegehuis

Mark Garvey

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND RE-EVALUATE FRONT FOOT CHARGES TASK NO. 28

The City Engineer's Office has reviewed current construction costs for sewer facilities and recommends the following front foot assessment rates:

	2013	 2014	% Increase		
Domestic Sewer User	\$ 70.00	\$ 80.00	14.29%		
Commercial - Industrial User (Sewer over 8 in. diameter)	\$ 104.00	\$ 109.00	4.81%		

The rates are based on an average of prices quoted in bid proposals which have been received by the City Engineer's Office during the period July, 2012 through June, 2013. Calculations of the rates are on file in the City Engineer's Office.

SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND EVALUATE SEWER LATERAL CHARGES TASK NO. 29

The City Engineer's Office has evaluated the cost for a six inch (6") sanitary sewer lateral and recommends that sewer lateral costs should be as follows:

R.O.W. WIDTH

COST FOR 6-INCH LATERAL

	2013	2014	% Increase
50 ft.	\$2,150	\$2,400	11.63%
60 ft.	\$2,550	\$2,850	11.76%
66 ft.	\$2,800	\$3,100	10.71%
80 ft.	\$3,350	\$3,650	8.96%
100 ft.	\$4,100	\$4,500	9.76%



Date:

October 17, 2013

To:

Geri Eye

Utility Financial Officer

From:

Michael Lunn

Environmental Services Manager

Subject:

Sewer Rate Study - Task #30 - Surcharges

The Wastewater Treatment plant has a limited amount of capacity which is typically allocated to industries having discharges exceeding ordinance limits. These industries are charged for utilizing this remaining plant capacity in four categories of conventional pollutants. These pollutants are: 1) Biochemical Oxygen Demand (BOD); 2) Total Suspended Solids (TSS); 3) Total Phosphorus (Phos); 4) and Ammonia Nitrogen (NH3). This benefits the industries in that it reduces their pretreatment requirements and benefits the system by utilizing available system capacity.

As shown on the attached sheets, the surcharge methodology includes evaluating various cost centers at the Wastewater Treatment plant and allocating costs based on unit process operating cost. Cumulative costs can then be allocated to the four conventional pollutant categories identified above to determine appropriate surcharge rates.

S-82

City of Grand Rapids Michigan Sewage Disposal System Fund Evaluation of Wastewater Surcharges for Industrial Customers- BOD, TSS, Phos & NH3 TASK NO. 30- Part 1

Description	Rate :	Study Year 2013	Volume	BOD	TSS	Phos	NH3	Industrial	Other
Operation & Maintenance (See Part 2) Depreciation (See Part 3) Return on System Investment (See Part 3)	\$	24,726,721 6,089,569 11,379,865	\$ 3,828,206 648,055 778,031	\$ 3,947,164 668,184 802,197	\$ 4,849,241 820,876 985,513	\$ 859,392 145,479 174,656	\$ 440,030 74,484 89,422	\$ 643,490 - -	\$ 10,159,198 3,732,491 8,550,046
Total	<u> </u>	42,196,155	\$ 5,254,292	\$ 5,417,545	\$ 6,655,630	\$ 1,179,527	\$ 603,936	\$ 643,490	\$ 22,441,735
Recommended Surcharge R	Rate - 2	014		\$ 0.215	\$ 0.338	\$ 2.062	\$ 0.295		
Actual Surcharge Rate - 2013				\$ 0.193	\$ 0.277	\$ 2.158	\$ 0.294		
Change in Surcharge Rate - Amount-	2013 to	2014		\$ 0.022	\$ 0.061	\$ (0.096)	\$ 0.001		
Change in Surcharge Rate - Percent-	2013 to 2	2014		11.40%	22.02%	-4.45%	0.34%		
Loadings - Ib/day (Per Lunn email o	f 09/24/20)13) *		69,003	53,910	1,567	5,604		
Loadings - lb/year				25,186,095	19,677,150	571,955	2,045,460		

^{*} Loadings are the average of the last three years.

Task No. 30 - Part 2

City of Grand Rapids Michigan Sewage Disposal System Fund

Evaluation of High Strength Surcharges- BOD, TSS, Phos & NH3 Allocation of Operation & Maintenance Expense & Determination of WWTP Allocation Factors

		Primary A	lloca	tion	Component Allocation (3)										
	E	Base Year- Calendar Year-			See Task 3	30 - Part 4									
		2013			Allocation	Line									
Wastewater Treatment Plant	Al	location (1)			Basis	No. Ref.	Volume	BOD		TSS	Phos	NH3	Industrial		Other
Pre-Treatment	\$	957,234	\$	1,092,751	WWTP	(1)	\$ 1,092,751	\$	_	\$ -	\$ -	\$ -	\$ -	\$	-
Primary Treatment		1,486,135		1,696,530	WWTP	(2)	-		508,959	1,017,918	-	169,653	-		-
Secondary Treatment		2,385,231		2,722,912	WWTP	(3)	680,727		1,089,165	408,437	408,437	136,146	-		-
Disinfection/Dechlorination		934,546		1,066,851	WWTP	(4)	1,066,851		-	-	-	-	~		-
Phosphorus Removal		554,890		633,447	WWTP	(5)	316,723		-	-	316,724	-	-		-
Residue Handling/Disposal		5,879,211		6,711,542	<i>WWTP</i>	(6)	671,154		2,349,040	3,422,886	134,231	134,231	-		-
	\$	12,197,247	\$	13,924,033			\$ 3,828,206	\$	3,947,164	\$ 4,849,241	\$ 859,392	\$ 440,030	\$ -	\$	_
Lift Stations															
Interceptor				259,244	Collection	(11)	_		-	-	-	_	-		259,244
Trunk				113,588	Collection	(11)	-		-	-	-	_	-		113,588
Local Collector				406,985	Collection	(11)	-		-	-	-	-	-		406,985
Sewer Lines															
Interceptor				276,639	Collection	(11)	-		-	-	-	_	-		276,639
Trunk				591,598	Collection	(11)	-		-	-	-	-	-		591,598
Local Collector				4,317,122	Collection	(11)	-		-	-	~	_	_		4,317,122
Bulk Meter Stations				10,685	Collection	(7)	-		_	_	-	-	-		10,685
Customer Accounting				2,559,086	Admin	(8)	_		_	_	~	-	-		2,559,086
Industrial Pretreatment				643,490	Industry	(9)	-		-	-	-	-	643,490		_
Subtotal			\$	23,102,470	•		\$ 3,828,206	\$	3,947,164	\$ 4,849,241	\$ 859,392	\$ 440,030	\$ 643,490	\$	8,534,947
Admin				1,624,251	Admin	(10)	· •		-	-	_	-	_		1,624,251
Total			\$	24,726,721			\$ 3,828,206	\$	3,947,164	\$ 4,849,241	\$ 859,392	\$ 440,030	\$ 643,490	\$	10,159,198
WWTP Allocation Factor	ors			100.000%			27.494%		28.348%	34.826%	6.172%	3.160%	0.000%		0.000%

⁽¹⁾ Based on 09/24/2013 Lunn email.

⁽²⁾ Primary Allocation of Current Year for Calendar 2014, based on 2013 Base Year.

⁽³⁾ Refer to Task 30- Part 4 as noted.

Task No. 30 - Part 3

City of Grand Rapids Michigan Sewage Disposal System Fund Evaluation of High Strength Surcharges- BOD, TSS, Phos & NH3 Allocation of Depreciation Expense & Return on System Investment

Depreciation Expense- Task 24

Wastewater Surcharges

34.8260%

6.1720%

3.1600%

Description	Amount	Volume		BOD	 TSS	Phos	 NH3	Inc	lustrial	Other
Integrated System (1)	\$ 2,357,078	\$ 648,055	\$	668,184	\$ 820,876	\$ 145,479	\$ 74,484	\$	-	\$ _
Other	3,732,491	-		-	-	_	-		-	3,732,491
Total	\$ 6,089,569	\$ 648,055	\$	668,184	\$ 820,876	\$ 145,479	\$ 74,484	\$		\$ 3,732,491
		Retur	n on	System In	ment- Tasi a stewater	charges				
Description	Amount	Volume		BOD	 TSS	Phos	 NH3	Inc	lustrial	Other
Integrated System (1)	\$ 2,829,819	\$ 778,031	\$	802,197	\$ 985,513	\$ 174,656	\$ 89,422	\$	-	\$ _
Other	8,550,046	-		_	-	-			-	8,550,046
Total	\$ 11,379,865	\$ 778,031	\$	802,197	\$ 985,513	\$ 174,656	\$ 89,422	\$	-	\$ 8,550,046

28.3480%

27.4940%

⁽¹⁾ Allocated on WWTP Allocation Factors *

* Refer to Task No. 30 - Part 2

Task No. 30 - Part 4

City of Grand Rapids Michigan Sewage Disposal System Fund Evaluation of High Strength Surcharges- BOD, TSS, Phos & NH3 Functional Cost Allocation Factors

						5						
,	Line Vo. Ref.	Cost Function		Total %	Allocation Basis	Volume %	BOD %	TSS %	Phos %	NH3 %	Industrial %	Other %
	(1)	Pre-Treatment	(a)	100.000%	WWTP	100.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
	(2)	Primary Treatment	(a)	100.000%	WWTP	0.000%	30.000%	60.000%	0.000%	10.000%	0.000%	0.000%
	(3)	Secondary Treatment	(a)	100.000%	WWTP	25.000%	40.000%	15.000%	15.000%	5.000%	0.000%	0.000%
	(4)	Disinfection/Dechlorination	(a)	100.000%	WWTP	100.000%	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%
	(5)	Phosphorus Removal	(a)	100.000%	WWTP	50.000%	0.000%	0.000%	50.000%	0.000%	0.000%	0.000%
	(6)	Residue Handling/Disposal	(a)	100.000%	WWTP	10.000%	35.000%	51.000%	2.000%	2.000%	0.000%	0.000%
	(7)	Bulk Metering Stations		100.000%	Collection	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	100.000%
	(8)	Customer Accounting		100.000%	Admin	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	100.000%
70	(9)	Industrial Pretreatment		100.000%	Industry	0.000%	0.000%	0.000%	0.000%	0.000%	100.000%	0.000%
ខ	(10)	Admin		100.000%	Admin	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	100.000%
85	(11)	Collection System		100.000%	Collection	0.000%	0.000%	0.000%	0.000%	0.000%	0.000%	100.000%

(a) With the exception of phosphorus removal, foregoing based on "Final Allocation Table" in August 1, 2003 memo from Randall Fisher & Mike Lunn to Eric DeLong regarding 2001 Surcharge Rate Evaluation. Evaluation by WWTP staff for 2013 RS Review concluded percentages for phosphorus removal shall remain allocated 50/50 to the categories above, as initially recommended in the 2006 RS Review, to recommend 2014 rate adjustments.

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY IPP PERMIT FEE STRUCTURE – TASK NO. 31

The City of Grand Rapids Industrial Pretreatment Program (IPP) Permit fee structure is based on the actual cost of administration and implementation. Administration includes all the costs associated with document generation and handling as well as one annual site visit. The implementation costs include all sampling and associated laboratory analyses required by the permit. These two fees are identified on permit documents as a Permit Fee and an Analytical Fee.

Permit Fee: This fee is based on the actual costs associated with administering the permit program, including time spent on permit required inspections, clerical requirements, data handling requirements and all trunkline monitoring. This fee will be specific to the costs associated with the permit category.

Analytical Fee: This fee is based on actual costs associated with each permit. The costs, and an explanation of how they are determined, are outlined in an accompanying attachment. Labor time, including sampling and sample delivery to our laboratory, was derived from experience:

Composite samples: 1.5 hours each Grab samples: 1.0 hours each

Four examples of analytical fees are attached herewith.

City of Grand Rapids Cost of Services Provided by IPP

Last Update: 10/17/2013

Permit Fee: \$ 400.00

IPP Costs:

Labor: \$ 57.57 per hour Vehicle: \$ 4.01 per hour Sampler: \$ 35.00 per day

IPP Accounting:

Composite Labor: 1.5 hours per sample Grab Sample Labor: 1.0 hours per sample

Laboratory Costs:

metals 7.00 ea. TSS \$ 7.00 ea. BOD \$ 14.00 ea. total phosphate \$ **13.50** ea. \$ **5.00** ea. pН EPA 624 \$ 60.00 ea. EPA 625 \$ 115.00 ea. BTEX/MTBE \$ **35.00** ea. sulfide \$ 12.00 ea. oil & grease \$ 25.00 ea. total cyanide \$ 15.00 ea. 10.00 ea. hex chrome \$ 25.00 ea. fecal coliform \$ Mercury (EPA 245.1 or 245.2) \$ 15.00 ea. Ammonia as (NH₃-N) \$ 9.00 ea.

Explanation of Costs:

Labor: Labor is the hourly pay rate of a Water Pollution Control Inspector (classification 21A @ "F" step = to \$28.7842 x 2) per the latest agreement between the City of Grand Rapids and the Grand Rapids Employees Independent Union plus 100% as specified in section 2.81(1) of the City of Grand Rapids Sewage Disposal System Ordinance. If personnel in a different classification are required, time will be billed based on that classification's pay scale plus 100%.

Vehicle: Hourly rate is the actual cost charged to City departments for vehicle use plus 25% for overhead.

Sampler: Sampler costs are derived from an average of the lowest quoted prices obtained from private suppliers in the greater Grand Rapids Area.

Analysis: Laboratory costs are based on the most recently approved competitive bid obtained for contract work provided to the Grand Rapids Wastewater Treatment Plant's Laboratory.

```
Permit No: Example 1
           Company:
                       Typical Metal Finisher
    Facility Address:
      City, State, Zip
          Permit Fee:
                                400.00
                        $
                                785.48
      Analytical Fee:
        Amount Due:
                        $
                              1,185.48
Composite Samples:
                              4
  IPP Requirements:
                       man hours =
                                        6.0
                                             x $
                                                  57.57
                                                              $ 345.42
                       sampler days =
                                        4.0
                                                   35.00
                                                           =
                                                              $ 140.00
                                             x $
                       vehicle hours =
                                        6.0 × $
                                                    4.01
                                                              $ 24.06
                                  Total IPP Composite Costs:
                                                                         $ 509.48
Laboratory Analysis:
                       metals
                                             Х
                                                    7.00
                                                                 49.00
    (each composite)
                       TSS
                                                $
                                                    7.00
                                                           =
                                                              $
                                             Х
                       BOD
                                                $
                                                   14.00
                                                              $
                                             Х
                       total phosphorus
                                             Х
                                                $
                                                   13.50
                       рН
                                                $
                                                    5.00
                                             Х
                       EPA 625
                                               $ 115.00
                                             Χ
                       sulfide
                                             Х
                                               $
                                                   12.00
                       oil & grease
                                               $
                                                   25.00
                                             Х
                       hex chrome
                                               $
                                                   10.00
                                             Х
                       fecal coliform
                                                $
                                                   25.00
                                             Х
                       other
                                             Х
                                     total per composite:
                                                                 49.00
                           Total Laboratory Composite Costs:
                                                                            196.00
                                     Total Composite Sample Costs:
                                                                                    $
                                                                                          705.48
      Grab Samples:
                              4
                                        0.0 × $
  IPP Requirements:
                       man hours =
                                                   57.57
                       vehicle hours =
                                        0.0 \times \$
                                                    4.01
                                        Total IPP Grab Costs:
                                                                         $
Laboratory Analysis:
                       metals
                                             Х
                                               $
                                                    7.00
                                                              $
          (each grab)
                       TSS
                                               $
                                                    7.00
                                                              $
                                             Х
                       BOD
                                             Х
                                               $
                                                   14.00
                                                   13.50
                       total phosphorus
                                             Х
                                                $
                                                $
                                                    5.00
                                                                  5.00
                       pН
                                             Х
                       EPA 624
                                                $
                                             Х
                                                   60.00
                       EPA 625
                                               $ 115.00
                                             Χ
                       BTEX/MTBE
                                             Χ
                                               $
                                                   35.00
                                                   12.00
                                                              $
                       sulfide
                                             x $
                                                $
                                                   25.00
                       oil & grease
                                             Χ
                       total cyanide
                                               $
                                                   15.00
                                                              $
                                                                 15.00
                                         1
                                             Х
                       hex chrome
                                               $
                                                   10.00
                                                              $
                                             Х
                       fecal coliform
                                                $
                                                   25.00
                                                           =
                                                              $
                                             Х
                       other
                                             Х
                                           total per grab:
                                                                 20.00
                                                                             80.00
                                Total Laboratory Grab Costs:
                                           Total Grab Sample Costs:
                                                                                    $
                                                                                           80.00
                                                                                    $
                                       Total Analytical Permit Costs:
                                                                                         785.48
```

S-88

Permit No:	Example 2											
Company: Facility Address: City, State, Zip	Litho Process											
Permit Fee: Analytical Fee: Amount Due:	\$ 400.00 \$ 66.58 \$ 466.58											
Composite Samples:												
IPP Requirements:	man hours = sampler days = vehicle hours =	0.0 0.0 0.0		\$	57.57 35.00 4.01	= =	\$ \$ \$	- - -				
	Tota	I IPP	Con	npc	osite Co	sts:			\$	-		
Laboratory Analysis: (each composite)	metals TSS BOD total phosphorus pH EPA 625 sulfide oil & grease hex chrome fecal coliform other		× × × × × × × × ×	\$ \$ \$ \$ \$ \$ \$	14.00 13.50 5.00 115.00 12.00 25.00 10.00	= = = = = =	****	-				
	te	-			posite:		\$	-				
	Total Labora	itory (∴on	nnc	NGITA L.A	STS:			\$	_		
		-		-				Costs:	•		\$	-
Grab Samples:		-		-	osite Sa			Costs:	Ť		\$	-
Grab Samples: IPP Requirements:	T	-		npo				Costs: 57.57	•		\$	-
Grab Samples: IPP Requirements:	T 1	otal (Con	n p o \$	osite Sa	amp	ole (·		\$	-
-	1 man hours =	1.0 1.0	× × ×	\$ \$	57.57	amp = =	s \$ \$	57.57	\$	61.58	\$	-
-	man hours = vehicle hours = vehicle hours = metals TSS BOD total phosphorus pH EPA 624 EPA 625 BTEX/MTBE sulfide oil & grease total cyanide hex chrome fecal coliform other	1.0 1.0 Tota	× × × × × × × × × × × × × × × × × × ×	\$\$ P \$\$\$\$\$\$\$\$\$\$\$\$\$	57.57 4.01 Grab Co 7.00 7.00 14.00 13.50 5.00 60.00 15.00 12.00 25.00 15.00 10.00 25.00	sts:	* * * * * * * * * * * * * * * * * * *	57.57 4.01		5.00		
IPP Requirements: Laboratory Analysis:	man hours = vehicle hours = vehicle hours = metals TSS BOD total phosphorus pH EPA 624 EPA 625 BTEX/MTBE sulfide oil & grease total cyanide hex chrome fecal coliform other	1.0 1.0 Tota	X IIP X X X X X X X X X X X X X X X X X	\$\$ P \$	57.57 4.01 Grab Co 7.00 7.00 14.00 13.50 5.00 60.00 15.00 12.00 25.00 10.00 25.00	sts:	e	57.57 4.01	\$		\$ \$	66.58 66.58

Company: Facility Address: City, State, Zip	Stripping Proce	ss									
Permit Fee: Analytical Fee: Amount Due:	\$ 400.00 \$ 101.58 \$ 501.58										
Composite Samples:											
IPP Requirements:	man hours = sampler days = vehicle hours =	0.0	Х	\$	57.57 35.00 4.01	=	\$ \$ \$				
	Tota	IPP	Con	npc	site Co	sts:			\$	-	
Laboratory Analysis: (each composite)	metals TSS BOD total phosphorus pH EPA 625 sulfide oil & grease hex chrome fecal coliform other to Total Labora		× × × × × × × er c	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	115.00 12.00 25.00 10.00 25.00 posite:	= = = = = = =	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$			-	
		-		-				Costs:	•		\$ _
Grab Samples:	1										
Grab Samples: IPP Requirements:	man hours = vehicle hours =	1.0	X	\$	57.57 4.01 Grab Co	=	\$	57.57 4.01	\$	61.58	
·	man hours = vehicle hours = metals TSS BOD total phosphorus pH EPA 624 EPA 625 BTEX/MTBE sulfide oil & grease total cyanide hex chrome fecal coliform other	1.0 Tota 5	x	\$ P \$\$\$\$\$\$\$\$\$\$\$\$\$	4.01	= sts:	\$		\$	61.58 40.00	
IPP Requirements: Laboratory Analysis:	man hours = vehicle hours = metals TSS BOD total phosphorus pH EPA 624 EPA 625 BTEX/MTBE sulfide oil & grease total cyanide hex chrome fecal coliform other Total L	1.0 Tota 5	x	\$ P \$\$\$\$\$\$\$\$\$\$\$\$\$	4.01 7.00 7.00 14.00 13.50 5.00 60.00 115.00 35.00 12.00 25.00 10.00 25.00	= sts:	* * * * * * * * * * * * * * * * * * *	4.01 35.00 5.00 40.00 Costs:			\$ 101.58

Permit No: Example 3

```
Permit No: Example 4
          Company:
                       Silver User - photoprocessor
    Facility Address:
      City, State, Zip
         Permit Fee:
                               400.00
                       $
                       $
                               205.74
      Analytical Fee:
       Amount Due:
                               605.74
Composite Samples:
  IPP Requirements:
                      man hours =
                                       0.0 × $
                                                  57.57
                       sampler days =
                                            x $
                                                   35.00
                                                          =
                                                              $
                                       0.0
                       vehicle hours =
                                       0.0 \times \$
                                                   4.01
                                 Total IPP Composite Costs:
                                                                        $
Laboratory Analysis:
                                            x $
                                                    7.00
                      metals
    (each composite)
                      TSS
                                            Х
                                               $
                                                   7.00
                                                          =
                                                             $
                      BOD
                                               $
                                                   14.00
                                            Х
                      total phosphorus
                                               $
                                                  13.50
                                            Х
                      рΗ
                                               $
                                                    5.00
                                            Χ
                      EPA 625
                                            x $ 115.00
                      sulfide
                                            x $
                                                  12.00
                                            x $
                      oil & grease
                                                  25.00
                                                             $
                      hex chrome
                                            x $
                                                  10.00
                      fecal coliform
                                               $
                                                  25.00
                                                          =
                                                             $
                                            Х
                      other
                                            Х
                                     total per composite:
                          Total Laboratory Composite Costs:
                                    Total Composite Sample Costs:
                                                                                   $
      Grab Samples:
                              3
 IPP Requirements:
                      man hours =
                                       3.0 × $
                                                 57.57
                                                             $ 172.71
                                                          =
                      vehicle hours =
                                       3.0 × $
                                                   4.01
                                                          =
                                                             $ 12.03
                                       Total IPP Grab Costs:
                                                                        $ 184.74
Laboratory Analysis:
                      metals
                                               $
                                                    7.00
                                                             $
                                                                 7.00
                                            Х
         (each grab)
                      TSS
                                            Х
                                               $
                                                   7.00
                                                          =
                                                             $
                      BOD
                                            x $
                                                  14.00
                                                             $
                      total phosphorus
                                            x $
                                                  13.50
                                                             $
                      pΗ
                                            Х
                                               $
                                                   5.00
                                                          =
                                                             $
                      EPA 624
                                              $
                                                  60.00
                                                             $
                                            Х
                      EPA 625
                                            x $ 115.00
                                               $
                      BTEX/MTBE
                                                  35.00
                                                             $
                                            Х
                                                          =
                      sulfide
                                            x $
                                                  12.00
                                                             $
                      oil & grease
                                            x $
                                                  25.00
                                                             $
                      total cyanide
                                               $
                                                  15.00
                                                             $
                                            Х
                      hex chrome
                                            x $
                                                  10.00
                                                         =
                                                             $
                      fecal coliform
                                            x $ 25.00
                                                          =
                                                             $
                      other
                                                                 7.00
                                          total per grab:
                               Total Laboratory Grab Costs:
                                                                            21.00
                                          Total Grab Sample Costs:
                                                                                   $
                                                                                        205.74
                                      Total Analytical Permit Costs:
                                                                                   $
                                                                                        205.74
```

S-91



DATE: October 10, 2013

TO: Gerri Eye

Utility Financial Officer

FROM: Charles R. Schroeder, PEAN Assistant Environmental Services Manager

SUBJECT: 2013 SEWER RATE STUDY - TASK #32 – SANITARY SEWER

OVERSIZING RATES

Sanitary Sewer Oversizing rates are established as follows:

	Amount
<u>Description</u>	(Per lineal foot)
8" to 10"	\$ 6.62
8" to 12"	\$ 12.14
8" to 15"	\$ 21.83
10" to 12"	\$ 5.52
10" to 15"	\$ 15.21
12" to 15"	\$ 9.69

These rates have been determined in accordance with the Sewage Disposal System Rules and Regulations and are approved for use from January 1, 2014 through December 31, 2014. Background information and calculations to establish these rates are on file in the Utility Engineering Distribution and Collection Division Office located at 1900 Oak Industrial Drive, NE. If you have any questions regarding this matter, please call me at extension 3690 (456-3690)

CRS/SS

srs\stask32 2013

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 33

SERVICE AREA MAPS AND SERVICE AREA LAND MASS SUMMARIES

The following summarizes Utility Service Districts (USD) land mass square miles for UAB partner communities, per information on file as of October 07, 2013:

	Sq. Miles of	
UAB Partners	USD by CC	Percent
Grand Rapids	45.36	38.500%
Walker	20.17	17.119%
Kentwood	14.28	12.120%
Cascade	16.21	13.758%
Grand Rapids Township	7.95	6.748%
Tallmadge Township	2.44	2.071%
Wright Township	0.89	0.755%
East Grand Rapids	3.37	2.860%
Ada	7.15	6.069%
Total	117.82	100.000%

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWAGE DISPOSAL SYSTEM FUND TASK NO. 34

INDIVIDUAL CIRCUIT BREAKER AND CITY & CUSTOMER COMMUNITY CIRCUIT BREAKER

The Third Amendment to the Water and Sanitary Sewer Agreements stipulates penalty fees shall be used to fund the circuit breaker provisions noted above. The following summarizes those values:

Description	Α	MOUNT	PERCENT
Individual Circuit Breaker	\$	80,604	12.50%
City & Customer Community Circuit Breaker		564,226	87.50%
Total	\$	644,830	100.00%

The following summarizes the amount, if any, of the City & Customer Community Circuit Breaker to be applied as a revenue credit in next year's Rate Study:

Description	A	MOUNT	PERCENT
City & Customer Community Circuit Breaker Amount- Above	\$	564,226	100.00%
Less: Amount Applied in Current Rate Study		(133,698)	-23.70%
Total Revenue Credit- Next Year's Rate Study	\$	430,528	76.30%

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DATE: November 12, 2013

TO: Geri Eye

Utility Financial Officer

FROM: Mike Lunn / Market Lunn

SUBJECT: 2013 SEWER RATE STUDY - TASK #35- FDD Opt Out Charge

The Footing Drain Disconnection Ordinance (FDD) Authorizes the City Manager or his designee to identify FDD Project Areas within the City of Grand Rapids based on the severity of System groundwater and stormwater inflow surcharge problems. Once designated, the ordinance requires homeowners within the FDD Project Areas to disconnect their footing drains from the City's sanitary sewer system at City expense.

The additional charge for non-compliance with the footing drain disconnection ordinance has been calculated based on current information and recommended to be \$73.40 which is the actual cost to the system for the additional flow.

ML

CITY OF GRAND RAPIDS, MICHIGAN SEWER RATE STUDY SEWER SUPPLY SYSTEM FUND TASK NO. 35

DETERMINE FOOTING DRAIN OPT OUT SEWER RATE.

1. /	Avoided	Claims	for	Sewage	Backups
------	---------	--------	-----	--------	---------

Annual claim costs

\$150,000 /year ¹	Estimated annual claims cost
74,053	Total retail customers ²
<u>58,265</u>	Total retail customers in Grand Rapids 2
\$2.03 /yr/cust.	Annual cost for claims in Grand Rapids
	74,053 58,265

2. Avoided Costs to treat the additional flow generated by footing drains

Flow Estimate

WWF	<u>21,796</u>	gal/year	Average generation rate
Total	65,596	gal/year	Average per house
Unit Conveyance & Treatment Costs			
Annual average FD flows	0.065596	MG/yr	Average per house
Conveyance	\$395	/MG	Unit conveyance cost 3
Treatment	\$922	/MG	Unit treatment cost 3
Conveyance & Treatment	\$1,317	/MG	
Annual Cost	\$86.39	/yr/cust.	Annual cost for a connected FD

43,800 gal/year

3. Actual MDNRE penalties for SSO's

Penalties for SSO

Grand Rapids Customers	58,265	
Penalties	\$25,000	Per occurrence
Potential SSOs	0 /year	Occurances
Annual cost	0 \$/year	

0 \$/year \$0.00 /yr/cust. Annual cost for penalties

Average generation rate

4. Avoided Transport & Future Projects Cost Per FDD

Pilot Project Costs	1,788 \$/yr/FDD cust.	Annual cost of FDD work ⁵
FDD Equivalents	<u>25,598</u> FDD	FDDs needed to correct backup problems
Total Cost	\$45,769,224	Annualized Conveyance and Storage Costs
Grand Rapids Customers	<u>58,265</u>	Customers in Grand Rapids
Cost Per single Family Home	\$785.54 \$/home/not removed	Annualized cost for Grand Rapids Customers

5. Avoided Administrative (Engineering & Legal) Costs

Associated with Administration of claims, construction

Legal	0.5	Citywide claims administration
Engineering	<u>1.5</u>	Citywide engineering investigation
Staffing	2.0	Total staffing
Rate	\$200,000 /year	Average loaded staffing rate 4
Total	\$400,000 /year	
Customers	58,265	In Grand Rapids

58,265 \$6.87 \$/yr/cust.

In Grand Rapids

Annual Cost Summary

	\$73.40 /month/cust.	Monthly fee for not disconnecting
TOTAL	\$880.83 \$/yr/cust.	
5. Administration	<u>\$6.87</u>	
Avoided Future Projects	\$785.54	
Actual MDNRE Penalties for SSOs	\$0.00	
Avoided Treatment	\$86.39	
1. Avoided Claims	\$2.03	

Notes:

- ¹ Sinking fund annual budget
- ² Customer numbers per 2013 Rate Study
- $^{\rm 3}$ Value for sewer maintenance and WWTP costs from 2013 rate study.
- ⁴ Estimated staff rate with benefits

 $^{^{\}rm 5}$ Total cost per FDD amortized over 20 years with 2.5% interest rate

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PRELIMINARY RATE STUDY



DATE:

November 14, 2013

TO:

Eric R. DeLong

Deputy City Manager

FROM:

Geri D. Eve, CPA

Utility Financial Officer

SUBJECT:

2013 WATER/SEWER RATE STUDY - PRELIMINARY REPORT

The preliminary study, recommending water and sewer rates as of January 1, 2014, for Grand Rapids and the retail and wholesale communities it serves, is submitted herein for consideration. A table of contents immediately precedes the report's two sections and lists the respective tasks performed in reviewing the Water Supply System's and Sewage Disposal System's operating and financial performance. The annual study considers variations in customer base, usage, and operating and capital costs by community and calculates recommended commodity and service rates based upon adherence to: (a) the uniform rate-setting methodology established in 1976-77 for customer communities not party to the uniform water and sewer service agreements; and (b) rate methodology changes contractually agreed in the uniform water and sewer service agreements for Utility Advisory Board (UAB) member customer communities. The methodology yields consistent performance in providing for the long-term needs of the water and sewage systems and satisfying debt service coverage pursuant to the systems' master bond ordinance covenants.

This year's review marks the 36th annual water/sewer rate study report and has yielded a water rate decrease and a sewer rate increase. The preliminary 2013 water rate recommendation represents the second consecutive water rate reduction and third reduction in the last four years. The preliminary 2013 sewer rate recommendation represents an increase equal to last year's rate decrease. Sewer rates have experienced two decreases and two increases over the last four years and are down 0.41% over that time period. The 2013 rate study continues to use the three year average of billed volume to calculate new rates. Slightly lower operating costs, higher integrated connection fee revenues and other revenue credits, increasing average billed volume, and a larger customer base all contribute to the favorable water rate change. Conversely, slightly higher operating costs, lower surcharge revenues, and decreasing billed volume contribute to the sewer rate increase.

A summary of the proposed revisions to set the 2014 rates for the systems are as follows:

- 1. Water Supply System revenue requirements reflect a decrease of \$1,735,395 or 4.30% less than revenues generated by existing rates and charges. This rate adjustment now includes revenues associated with water tank rental to cellular and Internet service providers for antenna equipment.
- 2. Sewage Disposal System revenue requirements reflect an increase of \$1,177,402 or 2.46% more than revenues generated by existing rates and charges. This rate adjustment properly excludes costs associated with the spring 2013 flood event expected to be reimbursed by FEMA.
- 3. Water and sewer integrated connection fees were adjusted upward by a CPI increase factor of 1.52%.
- 4. Water and sewer front foot rates and charges for water service lines and sewer laterals are being adjusted based on the average bid prices quoted in bid proposals received by the City Engineer during the period from July, 2012, through June, 2013.
- 5. The fees, charges, and penalties within the Water System Rules and Regulations will remain the same except for the security deposit, which will decrease by 5.8% based on three times the average quarterly retail water and sewer services bill. Also, fees for Omni type meters will be added based on the most recent bid for frozen/damaged/missing meters.
- 6. Surcharge rates will be adjusted in 2014 to reflect increased wastewater treatment plant costs and allocated on a three year average of loadings at the plant.
- 7. The cost of services provided by the Industrial Pretreatment Program will remain the same except for the vehicle charge per hour, which will increase by 6% based on the actual cost charged to City departments for vehicle use.
- 8. Water and sewer oversizing rates will increase based on the current cost of materials.
- 9. The charge for non-compliance with the footing drain disconnection ordinance (FDD Opt Out Charge) will increase to \$73.40 from \$73.20 based on current information related to the actual cost to the system for the additional flow.

Recommended rate adjustments incorporate provisions of the third amendment to the uniform service agreements with customer communities, which eliminates penalty fee credits from retail revenue requirements to fund the Individual Circuit Breaker (ICB) and the City and Customer Community Circuit Breaker (CCCCB). This amendment generated \$148,743 to support the ICB, the program aimed to assist retail customers requiring assistance in payment of their water/sewer bills, and represents a \$5,088 increase from the 2012 rate study. The third amendment also provides for a City and Customer Community Circuit Breaker, if sufficient funding is available, to limit each retail service area revenue requirement change to a level in line with the overall systems' initial average change. Adequate funds were available in both systems to provide full water circuit breaker relief to

Walker, Cascade, and Tallmadge, and full sewer circuit breaker relief to Kentwood, Cascade, Grand Rapids Township, Tallmadge, and Wright.

Three schedules supplement and immediately follow this memo. The first schedule summarizes the revenue requirement changes by customer community. The second schedule shows water and sewer rate adjustment impacts to a typical domestic customer with the system average quarterly consumption in each retail community. It also includes a comparison of the approximate monthly charge for Wright Township's residential equivalent unit (REU) rate structure. The final schedule shows comparative water and sewer monthly service and commodity rate adjustments for the City's wholesale customer communities.

Announcement of the proposed 2014 water and sewer rates to the UAB partners and other customer communities is scheduled for today, November 14, 2013. All customer communities have a thirty-day comment period following notification of the rates as provided in the water/sewer service agreements. Approval of customer community rates by resolution of the City of Grand Rapids Commission is scheduled for Tuesday, December 17, 2013.

Resolutions have been prepared providing for publication of the proposed ordinances amending the water and sewer rates and charges, establishing December 3, 2013, as the date for public hearing, and setting December 17, 2013, as the date to consider adoption of the proposed ordinances.

Attachments

CITY OF GRAND RAPIDS, MICHIGAN 2013 PRELIMINARY WATER/SEWER RATE STUDY SUMMARY OF REVENUE REQUIREMENT CHANGES November 13, 2013

	WATER (1)			SEWER (1)		
		AMOUNT	PERCENT	 AMOUNT	PERCENT	
GRAND RAPIDS	\$	(965,560)	-4.03%	\$ 738,617	2.25%	
WALKER		(124,627)	-3.88%	108,859	2.36%	
KENTWOOD		(227,165)	-5.29%	98,572	2.74%	
CASCADE TWP		(118,885)	-3.88%	54,928	2.74%	
GRAND RAPIDS TWP (2)		(96,174)	-4.42%	63,272	2.74%	
TALLMADGE TWP		(5,055)	-3.88%	7,111	2.74%	
WRIGHT TWP		NA	NA	6,769	2.74%	
EAST GRAND RAPIDS		(55,853)	-6.16%	67,271	11.11%	
ADA TWP		(92,563)	-7.32%	27,471	2.50%	
OTTAWA COUNTY		(49,514)	-3.54%	NA	NA	
GAINES TWP		NA	NA	4,532	3.12%	
SYSTEM	\$	(1,735,395)	-4.30%	\$ 1,177,402	2.46%	

⁽¹⁾ Change in revenue requirements based on revenues currently generated from rates, customer base and volumes reported in the preliminary rate study (Includes consideration for relief from CCCCB).

DISCLOSE RELIEF PROVIDED BY CITY & CUSTOMER COMMUNITY CIRCUIT BREAKER (CCCCB)

	WATE	R	SEWE	ĒR
	AMOUNT	PERCENT	AMOUNT	PERCENT
SYSTEM CHANGE- ABOVE	\$ (1,735,395)	-4.30%	\$ 1,177,402	2.46%
ADD: CCCCB RELIEF	168,143	0.42%	133,698	0.28%
SYSTEM CHANGE- WITHOUT RELIEF	\$ (1,567,252)	-3.88%	\$ 1,311,100	2.74%

⁽²⁾ Grand Rapids Twp contributed \$5,600 in 2012 Rate Study for 2013 sewer revenue requirements & rates.

CITY OF GRAND RAPIDS, MICHIGAN 2013 PRELIMINARY WATER/SEWER RATE STUDY IMPACT OF RATE ADJUSTMENTS ON DOMESTIC USERS BY CUSTOMER COMMUNITY * November 13, 2013

	A	PPROXIMATE QU	JARTER	RLYBILL	СНА	NGE
		2013		2014	DOLLARS	PERCENT
GRAND RAPIDS WATER	\$	74.22	\$	71.00	\$ (3.22)	-4.34%
SEWER		91.73		94.56	2.83	3.09%
	\$	165.95	\$	165.56	\$ (0.39)	-0.24%
BASE RATIO		1.00		1.00		
WALKER						
WATER	\$	78.37	\$	74.95	\$ (3.42)	-4.36%
SEWER		129.28		132.10	2.82	2.18%
	\$	207.65	\$	207.05	\$ (0.60)	-0.29%
RATIO TO GR		1.25		1.25		
KENTWOOD						
WATER	\$	85.30	\$	80.06	\$ (5.24)	-6.14%
SEWER		55.85		56.96	1.11	1.99%
	\$	141.15	_\$_	137.02	\$ (4.13)	-2.93%
RATIO TO GR		0.85		0.83		
CASCADE TWP						
WATER	\$	115.14	\$	110.02	\$ (5.12)	-4.45%
SEWER		131.05		134.21	3.16	2.41%
	\$	246.19	\$	244.23	\$ (1.96)	-0.80%
RATIO TO GR		1.48		1.48		
GRAND RAPIDS TWP- Contribution of \$5,600 fo	r 201:	3, \$0 for 2014.				
WATER	\$	91.25	\$	86.97	\$ (4.28)	-4.69%
SEWER		116.46		119.46	3.00	2.58%
	\$	207.71	\$	206.43	\$ (1.28)	-0.62%
RATIO TO GR		1.25		1.25		
TALLMADGE TWP						
WATER	\$	114.22	\$	108.56	\$ (5.66)	-4.96%
SEWER		261.35		268.08	6.73	2.58%
	\$	375.57	\$	376.64	\$ 1.07	0.28%
RATIO TO GR		2.26		2.27		

^{*} THE COMPARISONS ABOVE ARE BASED ON SYSTEM AVERAGE DOMESTIC CUSTOMER

QUARTERLY CONSUMPTION OF: WATER- 25.00 UNITS OR 18,700 GALLONS SEWER -

16.00 UNITS OR 11,968 GALLONS

NO. OF MONTHS: 3

Note: The average water consumption depicted above reflects an increase of two (2) units from last year's rate study. Sewer reflects a decrease of two (2) units from last year's rate study (the average quarterly consumption for water and sewer last year was 23 and 18 units, respectively).

REU (RESIDENTIAL EQUIVALENT UNIT) CUSTOMER COMMUNITY- APPROXIMATE QUARTERLY BILL

WRIGHT TWP- Contribution of \$0 for 2013, \$0 for 2014.

\$ 190.74 \$ <u>5</u>.10 SEWER (No. of REU 1.00) \$ 185.64 2.75%

CITY OF GRAND RAPIDS, MICHIGAN 2013 PRELIMINARY WATER/SEWER RATE STUDY IMPACT OF RATE ADJUSTMENTS ON WHOLESALE USERS November 13, 2013

	2013	2014	PERCENTAGE CHANGE
EAST GRAND RAPIDS			,
WATER - SERVICE (MONTHLY)	\$ 15,702.00	\$ 14,091.00	-10.26%
- COMMODITY (100 CF)	1.18	1.12	-5.08%
SEWER - SERVICE (MONTHLY)	1,604.00	1,540.00	-3.99%
- COMMODITY (MG)	1,396.00	1,558.00	11.60%
ADA TWP			
WATER - SERVICE	\$ 34,722.00	\$ 29,726.00	-14.39%
- COMMODITY	1.30	1.25	-3.85%
SEWER - SERVICE	45,912.00	42,700.00	-7.00%
- COMMODITY	1,763.00	1,975.00	12.02%
OTTAWA COUNTY			
WATER - SERVICE	\$ 170.00	\$ -	-100.00%
- COMMODITY	1.26	1.22	-3.17%
GAINES TWP			
SEWER - SERVICE	\$ 1,574.00	\$ 1,333.00	-15.31%
- COMMODITY	1,310.00	1,387.00	5.88%

PROPOSED GRAND RAPIDS ORDINANCE

*82966 Com. Shaffer, supported by Com. Bliss, moved adoption of the following resolution under the Consent Agenda:

RESOLVED:

- 1. The attached Ordinance amending Sections 2.34(2), 2.35(1), 2.40, 2.41.1, 2.41.2, and 2.45 to Chapter 26, Title II of the Grand Rapids City Code be published as part of the Proceedings.
- 2. As authorized by Article V, Sec. 10(b) of the City Charter, the attached summary of the proposed Ordinance be published in a newspaper of general circulation in lieu of publishing the full text thereof.
- 3. A public hearing be held on the proposed Ordinance on December 3, 2013, at 7:00 p.m. in the Commission Chambers on the ninth floor of City Hall.
 - 4. The proposed ordinance be considered for adoption on December 17, 2013.
 - 5. The City Clerk provide all notices of the public hearing as required by law.

SUMMARY OF ORDINANCE 2013-___

This Ordinance amends Sections 2.34(2), 2.35(1), 2.40, 2.41.1, 2.41.2, and 2.45 to Chapter 26, Title II of the Grand Rapids City Code entitled "City Water System".

The proposed amendment to the Water Rates and Charges will do the following:

- Amend the front foot rate for a Domestic user from \$75.00 to \$78.00;
- Amend the front foot rate for a Commercial or Industrial user for a line larger than eight inches in diameter from \$110.00 to \$103.00;
- Amend the Integrated Water Connection Base Fee Schedule as detailed:

Water Meter Size (inches)	01/01/13	01/01/14
3/4 or less	\$2,830	\$2,873
1	4,730	4,798
1 1/2	9,420	9,567
2	15,080	15,313
3	33,030	33,528
4	59,430	60,333
6 and over	132,080	134,083

- Amend the commodity rate for retail domestic, commercial and industrial users within the City of Grand Rapids from \$1.77 to \$1.70 per 100 cubic feet;
- Amend the monthly service charge for all users as detailed:

Water Meter Size (inches)	01/01/13	01/01/14
3/4 or less	\$9.99	\$9.50
1	15.18	14.66
1 1/4	21.85	21.29
1 1/2	30.00	29.39
2	50.75	50.02
3	110.04	108.95
4	193.04	191.46
6 or larger	430.20	427.19

• Amend the charges for water service lines as detailed:

		50 Ft.	60 Ft.	66 Ft.	80 Ft.	100 Ft.
		R.O.W.	R.O.W.	R.O.W.	R.O.W.	R.O.W.
Cost for 1"	2013	\$2,050	\$2,400	\$2,550	\$3,000	\$3,600
Water Service	2014	2,250	2,600	2,800	3,200	3,900
Cost for 1 1/2"	2013	3,000	3,400	3,700	4,200	5,000
Water Service	2014	3,100	3,500	3,750	4,400	5,200
Cost for 2"	2013	3,500	3,900	4,200	4,750	5,600
Water Service	2014	3,550	3,900	4,300	4,800	5,800

Add to and amend the frozen/damaged/missing meter charges as detailed:

Water Meter Size (inches)	Fee (\$)
1-1/2" Omni	\$820
2" Omni	950
3" Omni	1,170
4" Omni	2,205
6" or larger	3,530

- Amend the wording from "Final Reading" to "Final or Actual Reading" under meter services:
- Amend the average quarterly bill from \$187.20 to \$181.44 and the minimum charge(s) from \$577.86 to \$544.32 under security deposit;
- Amend the wording from "Processing for shut-off (non-payment, cross connection)" to "Processing for shut-off (Administration Fee) (non-payment, cross connection)" under penalties;
- Amend the wording at conclusion of the penalties from "*Penalty will double with each subsequent infraction and/or litigation" to "*Penalties shall double with each subsequent infraction:"
- Amend the watermain oversizing rates as detailed:

	01/01/13	01/01/14
Description	Amount per lineal foot	Amount per lineal foot
8" to 12"	\$14.84	\$16.56
12" to 16"	20.51	21.78
8" to 16"	35.35	38.35

- Establish the Individual Circuit Breaker (ICB) program for calendar 2014 at \$148,743;
- These proposed amendments shall be effective on January 1, 2014.

NOTICE

Copies of this Ordinance are available for review and distribution from the Office of the City Clerk, 300 Monroe Ave., NW, Grand Rapids, MI 49503.

The City Commission will hold a public hearing on the proposed Ordinance changes on December 3, 2013, at 7:00 p.m. in the Commission Chambers on the ninth floor of City Hall.

AN ORDINANCE TO AMEND SECTIONS 2.34(2), 2.35(1), 2.40. 2.41.1, 2.41.2, and 2.45 TO CHAPTER 26 OF TITLE II OF THE CODE OF THE CITY OF GRAND RAPIDS AMENDING THE WATER RATES AND CHARGES

ORDINANCE NO. 2013-

THE PEOPLE OF THE CITY OF GRAND RAPIDS DO ORDAIN:

<u>Section 1</u>. That Section 2.34(2) of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

- "(2) The charge shall be known as the front foot rate and be determined by multiplying the rate per foot by the number of feet the property owner has fronting on the watermain used for local distribution. The front foot rate shall be as follows:
 - (a) Domestic User: \$78.00;
 - (b) Commercial or Industrial User;
 - 1. The same as a domestic user if the connection is made to a line eight (8) inches or less in diameter.
 - 2. For a line larger than eight (8) inches in diameter: \$103.00.

This charge will be annually reviewed and may change to reflect the current average cost of installation of local distribution lines."

Section 2. That Section 2.35(1) of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"(1) When a property owner or user is requested or required to connect to the System and has not previously paid or been assessed a connection fee, the following connection fee schedule shall apply:

Integrated Water Connection Base Fee Schedule

Water Meter (or equivalent)

Size (inches)	Base Fee
3/4 or less	\$2,873
1	4,798
1 ½	9,567
2	15,313
3	33,528
4	60,333
6 and over	134,083"

Section 3. That Section 2.40 of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"2.40 Rates and Charges for Retail Customers Within the City of Grand Rapids.

The following charges for water service provided retail users within the City of Grand Rapids shall be made.

Commodity Rate

Domestic \$1.70 per 100 cubic feet Commercial \$1.70 per 100 cubic feet Industrial \$1.70 per 100 cubic feet

Monthly Service Charge

Size of Meter	<u>Charge</u>
3/4 inch or less	\$9.50
1 inch	14.66
1 1/4 inch	21.29
1 1/2 inch	29.39
2 inches	50.02
3 inches	108.95
4 inches	191.46
6 inches or larger	427.19"

<u>Section 4</u>. That Section 2.41.1 of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.41.1 Miscellaneous Charges.

(1) Water Service Pipe Costs, as reflected in Task #29 of the 2013 Water Rate Study:

		50 Ft.	60 Ft.	66 Ft.	80 Ft.	100 Ft.
		R.O.W.	R.O.W.	R.O.W.	R.O.W.	R.O.W.
Cost for 1"	2013	\$2,050	\$2,400	\$2,550	\$3,000	\$3,600
Water Service	2014	\$2,250	\$2,600	\$2,800	\$3,200	\$3,900
Cost for 1 1/2"	2013	\$3,000	\$3,400	\$3,700	\$4,200	\$5,000
Water Service	2014	\$3,100	\$3,500	\$3,750	\$4,400	\$5,200
Cost for 2"	2013	\$3,500	\$3,900	\$4,200	\$4,750	\$5,600
Water Service	2014	\$3,550	\$3,900	\$4,300	\$4,800	\$5,800

(2) Miscellaneous Charges, as reflected in Task #30 of the 2013 Water Rate Study: (a) Hydrant Use Permits Weekly Pool Filling Permit\$75/wk + \$300 refundable deposit Contractor Seasonal (Winter or Summer) Tanker Hydrant Connection Permit\$25/week + metered volume (based on average retail commodity rate) + \$300 non-refundable fee Hydrant Flow Test.....\$200 fee (b) Tapping Permits Connection Size Fee \$225.00 2"and smaller 3" and larger Cost (c) Meter Installation and Seasonal Turn Off/On Fees Meter Size Fee 3/4" or smaller \$40.00 1" 45.00 1-1/2" 55.00 2" 60.00 3" 100.00 4" 200.00 6" and larger 250.00 (d) Frozen/Damaged /Missing Meter Charges Meter Size Fee 3/4" or smaller \$150.00 200.00 1-1/2" ECR 350.00 1-1/2" Turbo 500.00 1-1/2" Omni 820.00 2" ECR 450.00 2" Turbo 575.00 2" Omni 950.00 3" Turbo 750.00 3" Omni 1170.00 4" Omni 2205.00 6" and larger 3530.00 (e) Meter Services Final or Actual Reading.....\$35.00

(f) Security Deposit

Meter Testing Fee

Three (3) times average quarterly bill (\$181.44)\$544.32

(paid by customer if meter is accurate, no charge to customer if meter is faulty)

3-6" Meter

50.00

Cost

75.00

5/8 - 1" Meter

1-1/2 - 2" Meter

(g) Miscellaneous Permits

	Street opening permit	\$30.00
	Water inspection permit (each inspection within the City)	
	Water inspection permit (each inspection outside the City)	\$55.00
	Sanitary Service line inspection permit (each inspection within city) .	
	Sanitary Service line inspection permit (each outside city)	
	Storm service line inspection permit (each inspection within city)	
	Storm Service line inspection permit (each outside City)	
	Plumbing service re-inspection fee	
	Cross Connection re-inspection fee	\$75.00
	Sewer Lateral service Demolition/Cap off inspection fee	# 40.00
	(each within city)	\$40.00
	Sewer Lateral Service Demolition/Cap off inspection fee	¢ = = 00
	(each outside city) Footing Drain Lateral Inspection Permit (each within City)	
	Footing Drain Lateral Inspection Permit (each outside City)	
	Tooking Drain Lateral Inspection Fermit (each outside City)	\$33.00
(h)	Service Fee	
	Customer-requested on-site service	
	(non-scheduled appointment-customer issue only)	\$55.00
	Turn-on/turn-off water for real-estate inspections	\$110.00
(i)	Penalties	
(1)		100/
	Late-payment penalty Processing for shut-off (Administration Fee)	10% of net
	(non-payment, cross connection)	\$ 55.00
	Penalty for failure to keep appointment	
	Penalty for each missed appointment thereafter (related to same ser	
	Unauthorized operation of valves	\$100.00*
	(plus double the commodity rate for estimated volume)	Ψ100.00
	Unauthorized use of connection pipes for fire protection	\$100.00*
	(plus double the commodity rate for estimated volume)	+ 100.00
	Unauthorized opening of by-pass valve/tampering	\$100.00*
	(plus double the commodity rate for estimated volume)	+
	Unauthorized use of a hydrant/water	\$500.00
	Use of illegal connection on hydrant	
	(including loss of connection)	\$500.00
	Failure to return hydrant connection equipment	
	(plus number of weeks equipment used/missing)	\$500.00
	Return of damaged hydrant connection equipment	
	Lost/non-returned hydrant wrench	
	Permit infractions/violations	
	(plus double with each subsequent infraction)	
	Returned check charge (verified with City Treasurer 8/23/10)	\$30.00
	Unauthorized service tap of watermain	
	(fine per tap plus tapping permit fee for each tap)	\$500.00
	*Panalties shall double with each subsequent infraction	

^{*}Penalties shall double with each subsequent infraction.

(3) Watermain Oversizing Rates, as reflected in Task #32 of the 2013 Water Rate Study:

8 inch to 12 inch	\$16.56 per lineal foot
12 inch to 16 inch	\$21.78 per lineal foot
8 inch to 16 inch	\$38.35 per lineal foot"

<u>Section 5</u>. That Section 2.41.2 of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.41.2 Circuit Breaker

As agreed among the customer communities per the uniform water and sewer service agreement, the Individual Circuit Breaker (ICB) and City and Customer Community Circuit Breaker programs have been established in order to relieve hardship. The former program serves to assist eligible water customers, and the latter program serves to normalize rates among customer communities to the extent that funds are available for such purpose. These programs shall be administered according to the terms of the uniform water and sewer service agreement. The amount allocated for this purpose shall not exceed:

Circuit Breaker

<u>Year</u> 2014 Allocation \$148,743"

<u>Section 6</u>. That Section 2.45 of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.45 Effective Date

The rates, charges, and fees set forth in Section 2.34(2), 2.35(1), 2.40, 2.41.1, 2.41.2, and 2.45 shall be effective on January 1, 2014."

* CONSENT AGENDA APPROVAL

I hereby certify that the foregoing is a true transcript of the action of the City Commission of the City of Grand Rapids, Michigan, in public session held November 19, 2013.

Darlene O'Neal, Acting City Cler

PROPOSED GRAND RAPIDS ORDINANCE

*82967 Com. Shaffer, supported by Com. Bliss, moved adoption of the following resolution under the Consent Agenda:

RESOLVED:

- 1. The attached Ordinance amending Sections 2.95(2), 2.96(1), 2.101, 2.102, 2.102.1, and 2.105 to Chapter 27, Title II of the Grand Rapids City Code be published as part of the Proceedings.
- 2. As authorized by Article V, Sec. 10(b) of the City Charter, the attached summary of the proposed Ordinance be published in a newspaper of general circulation in lieu of publishing the full text thereof.
- 3. A public hearing be held on the proposed Ordinance on December 3, 2013, at 7:00 p.m. in the Commission Chambers on the ninth floor of City Hall.
 - 4. The proposed ordinance be considered for adoption on December 17, 2013.
 - 5. The City Clerk provide all notices of the public hearing as required by law.

SUMMARY OF ORDINANCE 2013-____

This Ordinance amends Sections 2.95(2), 2.96(1), 2.101, 2.102, 2.102.1, and 2.105 to Chapter 27, Title II of the Grand Rapids City Code entitled "City Sewage Disposal System".

The proposed amendment to the Sewer Rates and Charges will do the following:

- Amend the front foot rate for a Domestic user from \$70.00 to \$80.00;
- Amend the front foot rate for a Commercial or Industrial user for a line larger than eight inches in diameter from \$104.00 to \$109.00;
- Amend the Integrated Sewer Connection Base Fee Schedule as detailed:

Water Meter Size (inches)	1/01/13	1/01/14
3/4 or less	\$2,830	\$2,873
1	4,730	4,798
1 1/2	9,420	9,567
2	15,080	15,313
3	33,030	33,528
4	59,430	60,333
6 and over	132,080	134,083

- Amend the commodity rate for retail domestic, commercial and industrial users within the City of Grand Rapids from \$3.26 to \$3.21 per 100 cubic feet;
- Amend the monthly service charge for all users as detailed:

Water Meter Size (inches)	01/01/13	01/01/14
3/4 or less	\$13.19	\$14.40
1	21.00	23.36
1 1/4	31.04	34.88
1 1/2	43.31	48.96
2	74.55	84.80
3	163.79	187.20
4	288.73	330.56
6 or larger	645.71	740.16

Amend surcharges as detailed:

Surcharge	2013 Rate	2014 Rate
BOD	\$0.193	\$0.215
TSS	0.277	0.338
phosphorus	2.158	2.062
ammonia	0.294	0.295

- Amend the vehicle charge on the schedule of charges that apply to any analysis which may be required as a part of a Significant Industrial User Discharge Permit from \$3.78 per hour to \$4.01 per hour;
- Amend the charges for sewer laterals as detailed:

		50 Ft.	60 Ft.	66 Ft.	80 Ft	100 Ft
		R.O.W.	R.O.W.	R.O.W.	R.O.W.	R.O.W.
Cost for 6"	2013	\$2,150	\$2,550	\$2,800	\$3,350	\$4,100
Lateral	2014	2,400	2,850	3,100	3,650	4,500

• Amend the sewer oversizing rates as detailed:

	01/01/13	01/01/14
Description	Amount per lineal foot	Amount per lineal foot
8" to 10"	\$6.47	\$6.62
8" to 12"	11.56	12.14
8" to 15"	21.18	21.83
10" to 12"	5.09	5.52
10" to 15"	14.71	15.21
12" to 15"	9.62	9.69

- Amend the charge for non-compliance with the footing drain disconnection ordinance (FDD Opt Out Charge) from \$73.20 to \$73.40;
- These proposed amendments shall be effective on January 1, 2014.

NOTICE

Copies of this Ordinance are available for review and distribution from the Office of the City Clerk, 300 Monroe Ave., NW, Grand Rapids, MI 49503.

The City Commission will hold a public hearing on the proposed Ordinance changes on December 3, 2013, at 7:00 p.m. in the Commission Chambers on the ninth floor of City Hall.

AN ORDINANCE TO AMEND SECTIONS 2.95(2), 2.96(1), 2.101, 2.102, 2.102.1, and 2.105 TO CHAPTER 27 OF TITLE II OF THE CODE OF THE CITY OF GRAND RAPIDS, AMENDING THE SEWER RATES AND CHARGES

ORDINANCE NO. 2013-____

THE PEOPLE OF THE CITY OF GRAND RAPIDS DO ORDAIN:

<u>Section 1</u>. That Section 2.95(2) of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

- "(2) The charge shall be known as the front foot rate and be determined by multiplying the rate per foot by the number of feet the property owner has fronting on the local collector sewer line from which he or she will receive service. The front foot rate shall be as follows:
 - (a) Domestic User: \$80.00;
 - (b) Commercial or Industrial User:
 - 1. The same as a domestic user if the connection is made to a local collector sewer line eight (8) inches or less in diameter.
 - 2. For a line larger than eight (8) inches in diameter: \$109.00.

This charge will be annually reviewed and may change to reflect the current average cost of installation of local collector sewer lines."

<u>Section 2</u>. That Section 2.96(1) of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"(1) When a property owner or user is requested or required to connect to the System and has not previously paid or been assessed a connection fee, the following connection fee schedule shall apply:

Integrated Sewer Connection Base Fee Schedule

Water Meter (or equivalent) Size (inches) Base Fee 3/4 or less \$2.873 1 \$4,798 1 ½ \$9,567 2 \$15,313 3 \$33,528 4 \$60,333 6 and over \$134,083"

<u>Section 3</u>. That Section 2.101 of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"2.101 Rates and Charges for Retail Users Within the City of Grand Rapids.

The following rates and charges for sewage disposal service shall apply for users within the City of Grand Rapids:

		Commodity Rate
Domestic	\$3.21	per 100 cubic feet
Commercia	I\$3.21	per 100 cubic feet
Industrial	\$3.21	per 100 cubic feet

Monthly Service Charge

Size of Meter	<u>Charge</u>
3/4 inch or less	\$14.40
1 inch	23.36
1 1/4 inches	34.88
1 1/2 inches	48.96
2 inches	84.80
3 inches	187.20
4 inches	330.56
6 inches or larger	740.16"

<u>Section 4</u>. That Section 2.102 of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"2.102 Surcharges and Permit Fees.

(1) If the City Manager determines that a discharge will not cause pass through or interference as defined in this Chapter, Industrial or Commercial users whether they are located within a retail service area or a bulk service area shall be charged a surcharge if the concentration of their discharge exceeds a five-day BOD of two hundred fifty (250) mg/l, and/or TSS of two hundred fifty (250) mg/l, or any phosphorus of fifteen (15) mg/l. That charge shall be twenty-one and five-tenth cents (\$0.215) per pound of BOD and thirty-three and eight-tenth cents (\$0.338) per pound of TSS and two dollars and six and

two-tenth cents (\$2.062) per pound of phosphorus in excess of the above limits. In addition, all industrial or commercial users shall be charged a surcharge for ammonia concentrations exceeding thirty-eight (38) mg/l. The charge shall be twenty nine and five-tenth cents (\$0.295) per pound of ammonia in excess of the above limit. Discharge concentrations of these substances and the resulting surcharge shall be based on at least three composite samples per quarter. This sampling shall be performed by either the City or the Industrial User as determined by the City Manager.

- (2) The fee for a Significant Industrial User Discharge Permit as provided for in Section 2.70 of this Chapter whether they are located within a retail service area or a bulk service area shall be four hundred dollars (\$400.00) per year and an analytical fee based upon Section 2.102(3).
- (3) The following schedule of charges shall apply to any analysis which may be required as a part of a Significant Industrial User Discharge Permit:

\$7.00 each
\$7.00 each
\$14.00 each
\$13.50 each
\$5.00 each
\$60.00 each
\$115.00 each
\$35.00 each
\$12.00 each
\$25.00 each
\$15.00 each
\$10.00 each
\$25.00 each
\$15.00 each
\$9.00 each
\$57.57 hour
\$35.00 day
\$4.01 hour

(4) These charges will be reviewed annually and may change to reflect the current cost of providing these services."

<u>Section 5</u>. That Section 2.102.1 of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.102.1 Miscellaneous Charges

(1) Sewer Lateral Charges, as reflected in Task #29 of the 2013 Sewer Rate Study:

R.O.W. WIDTH	COST FOR	6-INCH LATERAL
-	2013	2014
50 ft.	\$2,150	\$2,400
60 ft.	\$2,550	\$2,850
66 ft.	\$2,800	\$3,100
80 ft.	\$3,350	\$3,650
100 ft.	\$4,100	\$4,500

(2) Sewer Oversizing Rates, as reflected in Task #32 of the 2013 Sewer Rate Study:

<u>Description</u>	Amount (per lineal foot)
8" to 10"	\$6.62
8" to 12"	\$12.14
8" to 15"	\$21.83
10" to 12"	\$5.52
10" to 15"	\$15.21
12" to 15"	\$9.69

(3) Footing Drain Disconnect Opt Out Charge, as reflected in Task #35 of the 2013 Sewer Rate Study, and as authorized by Section 2.115 of this Code:

\$73.40/customer/month"

<u>Section 6</u>. That Section 2.105 of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.105 Effective Date

The rates, charges, and fees set forth in Section 2.95(2), 2.96(1), 2.101, 2.102, 2.102.1, and 2.105 shall be effective on January 1, 2014."

* CONSENT AGENDA APPROVAL

I hereby certify that the foregoing is a true transcript of the action of the City Commission of the City of Grand Rapids, Michigan, in public session held November 19, 2013.

Darlene O'Neal, Acting City Clerk

NOTICE OF PUBLIC HEARING

STATE OF MICHIGAN

County of Kent

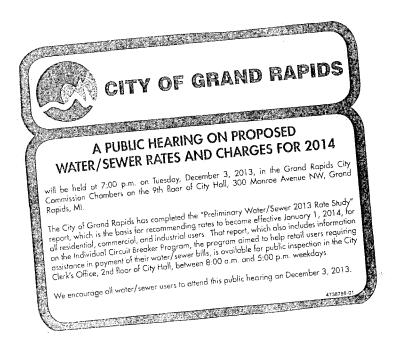
ss Deja Modernon

Being duly sworn deposes and say he/she is Principal Clerk of



THE GRAND RAPIDS PRESS DAILY EDITION

- · ·		ent and otherwise qualified according to Supreme paper, has been duly published in said paper on the
Mollember 24	_ A.D. 20 <u> </u> ろ	
Sworn to and subscribed before me this	25	day of Moulmber 2013
		JANICE M. RINGLER Notary Public, State of Michigan County of Kent My Commission Expires: 10/03/2014 Acting in the County of



NOTICE OF PUBLIC HEARING

THE GRAND RAPIDS PRESS / SUNDAY, NOVEMBER 24, 2013 / A15

Local

ELECTED STATE

Founders CEO: Laid-off Miller Coors employees calling us for jobs

Clish luncheon
There are falks out there
in the big briwery world who
are seeking us.
According to the Milwaukee
Business Journal MillerCoors
is cutting employees as part
of a workforce restructuring
designed to help the company

"achine its operating nuargin and profitability goals". Miller Coors second-querter income dropped 5.5 percent because of declainty acles for its two largest branch, Coors Light and Miller Liu, the Milwaukee Journal Sentitel reported.

We a sign of the troses for

70%

Surge in output

in 2014 expected by Founders Brewing

Second-quarter income drop by MillerCoors

5.8%

brownies in the U.S., Stevens and d.

In 2014, the browery plans to distribute no 05 states and almost a dozen countries. The browsery expects to hire 4.0 employees neat year, and he said the company has reached the point where it needs to bring in highes-level sidd-sels by advertising for sales and marketing position around the country.

'Cleaner than clean'

Going behind the scenes at LG Chemistratory plant

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4300 Remembrance Rd. NW, Walker • 615.453.7741 1205 Fulton St. W • 616.233.4711

PriorityHealth V



DEC. 2, 2 RM.-3 RM. DEC. 2, 6 RML-7 RM. Hear about our plans for individuals and families

Reform questions

Talk to a licensed agent Participate in giveaways!

Priority Health information center S111 Leanerd St. NE, Grund Rapidis

CITY OF GRAND RAPIDS

will be held or 7:00 p.m. on Treader, December 3, 2013, is the Grand Repris Co. Commission Chambers on the 19th Room of Cay Hall, 200 Marrow America N.W. Grand

The Cay of Grand Regula has completed the "Pedimonary Motors' Seven 2017 has Sud-monary with 6 he has he in commercially over the hasons induced harmony." (2014, As-on has been seen to be a superior of the second of the second of the second of his beat second of the second of the second of the second of the second production of the second of the se

PUBLIC HEARINGS - GRAND RAPIDS ORDINANCE

83020 Pursuant to Commission File No. 82966, dated November 19, 2013, a public hearing was held on this date to consider an amendment to Chapter 26, Title II of the Code of the City of Grand Rapids (Water Rates and Charges).

At the conclusion of said hearing, the Mayor declared the hearing closed and referred the matter to the Committee of the Whole.

I hereby certify that the foregoing is a true transcript of the action of the City Commission of the City of Grand Rapids, Michigan, in public session held December 3, 2013.

Darlene O'Neal, Acting City Clerk

PUBLIC HEARINGS - GRAND RAPIDS ORDINANCE

83021 Pursuant to Commission File No. 82967, dated November 19, 2013, a public hearing was held on this date to consider an amendment to Chapter 27, Title II of the Code of the City of Grand Rapids (Sewer Rates and Charges).

At the conclusion of said hearing, the Mayor declared the hearing closed and referred the matter to the Committee of the Whole.

I hereby certify that the foregoing is a true transcript of the action of the City Commission of the City of Grand Rapids, Michigan, in public session held December 3, 2013.

Darlene O'Neal, Acting City Clerk

FINAL ADOPTION OF RATE ORDINANCE

83032 An Ordinance to amend Chapter 26 of Title II of the City Code amending Water Rates and Charges was presented to the City Commission on November 19, 2013 under File No. 82966 and a public hearing was held on December 3, 2013 under File No. 83020. The aforementioned ordinance shall be considered for adoption this date.

Com. White, supported by Com. Bliss, moved adoption of the following ordinance:

AN ORDINANCE TO AMEND SECTIONS 2.34(2), 2.35(1), 2.40, 2.41.1, 2.41.2, and 2.45 TO CHAPTER 26 OF TITLE II OF THE CODE OF THE CITY OF GRAND RAPIDS AMENDING THE WATER RATES AND CHARGES

ORDINANCE NO. 2013-86

THE PEOPLE OF THE CITY OF GRAND RAPIDS DO ORDAIN:

Section 1. That Section 2.34(2) of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

- "(2) The charge shall be known as the front foot rate and be determined by multiplying the rate per foot by the number of feet the property owner has fronting on the watermain used for local distribution. The front foot rate shall be as follows:
 - (a) Domestic User: \$78.00;
 - (b) Commercial or Industrial User;
 - 1. The same as a domestic user if the connection is made to a line eight (8) inches or less in diameter.
 - 2. For a line larger than eight (8) inches in diameter: \$103.00.

This charge will be annually reviewed and may change to reflect the current average cost of installation of local distribution lines."

Section 2. That Section 2.35(1) of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"(1) When a property owner or user is requested or required to connect to the System and has not previously paid or been assessed a connection fee, the following connection fee schedule shall apply:

Integrated Water Connection Base Fee Schedule

Water Meter (or equivalent) Size (inches) Base Fee 3/4 or less \$2.873 1 4,798 1 1/2 9.567 2 15,313 3 33,528 4 60,333 134,083" 6 and over

Section 3. That Section 2.40 of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"2.40 Rates and Charges for Retail Customers Within the City of Grand Rapids.

The following charges for water service provided retail users within the City of Grand Rapids shall be made.

Commodity Rate

Domestic \$1.70 per 100 cubic feet Commercial\$1.70 per 100 cubic feet Industrial \$1.70 per 100 cubic feet

Monthly Service Charge

Size of Meter	Charge
3/4 inch or less	\$9.50
1 inch	14.66
1 1/4 inch	21.29
1 1/2 inch	29.39
2 inches	50.02
3 inches	108.95
4 inches	191.46
6 inches or larger	427.19"

Section 4. That Section 2.41.1 of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.41.1 Miscellaneous Charges.

(1) Water Service Pipe Costs, as reflected in Task #29 of the 2013 Water Rate Study:

		50 Ft.	60 Ft.	66 Ft.	80 Ft.	100 Ft.
		R.O.W.	R.O.W.	R.O.W.	R.O.W.	R.O.W.
Cost for 1"	2013	\$2,050	\$2,400	\$2,550	\$3,000	\$3,600
Water Service	2014	\$2,250	\$2,600	\$2,800	\$3,200	\$3,900
Cost for 1 1/2"	2013	\$3,000	\$3,400	\$3,700	\$4,200	\$5,000
Water Service	2014	\$3,100	\$3,500	\$3,750	\$4,400	\$5,200
Cost for 2"	2013	\$3,500	\$3,900	\$4,200	\$4,750	\$5,600
Water Service	2014	\$3,550	\$3,900	\$4,300	\$4,800	\$5,800

(2) Miscellaneous Charges, as reflected in Task #30 of the 2013 Water Rate Study:

(a) Hydrant Use Permits

\$75/wk + \$300 refundable deposit
er)
\$25/week + metered volume
(based on average retail commodity rate)
+ \$300 non-refundable fee
\$200 fee

(b) Tapping Permits

Connection Size	Fee
2" and smaller	\$225.00
3" and larger	Cost

(c) Meter Installation and Seasonal Turn Off/On Fees

Meter Size	<u>Fee</u>
3/4" or smaller	\$40.00
1"	45.00
1-1/2"	55.00
2"	60.00
3"	100.00
4"	200.00
6" and larger	250.00

(d) Frozen/Damaged/Missing Meter Charges

<u>Fee</u>
\$150.00
200.00
350.00
500.00
820.00
450.00
575.00
950.00
750.00
1170.00
2205.00
3530.00

(e) Meter Services

Final or Actual Reading	\$35.00

Meter Testing Fee

(paid by customer if meter is accurate, no charge to customer if meter is faulty)

5/8 - 1" Meter	50.00
1-1/2 - 2" Meter	75.00
3-6" Meter	Cost

(f) Security Deposit

Three (3) times average quarterly bill (\$181.44)\$544.32

(g) Miscellaneous Permits

Street opening permit	\$30.00
Water inspection permit (each inspection within the City)	\$40.00
Water inspection permit (each inspection outside the City)	\$55.00
Sanitary Service line inspection permit (each inspection within city)	\$40.00
Sanitary Service line inspection permit (each outside city)	\$55.00
Storm Service line inspection permit (each inspection within city)	\$40.00
Storm Service line inspection permit (each outside City)	\$55.00
Plumbing Service re-inspection fee	

	Cross Connection re-inspection fee	\$75.00
	Sewer Lateral Service Demolition/Cap off inspection fee	
	(each within city)	\$40.00
	Sewer Lateral Service Demolition/Cap off inspection fee	
	(each outside city)	
	Footing Drain Lateral Inspection Permit (each within City)	
	Footing Drain Lateral Inspection Permit (each outside City)	\$55.00
(h)	Service Fee	
	Custom as assumented an aite assuits	
	Customer-requested on-site service	6 55 00
	(non-scheduled appointment-customer issue only)	\$55.00
	Turn-on/turn-off water for real-estate inspections	\$110.00
(i)	Penalties	
	Late-payment penalty	10% of net
	Processing for shut-off (Administration Fee)	
	(non-payment, cross connection)	\$55.00
	Penalty for failure to keep appointment	
	Penalty for each missed appointment thereafter	
	(related to same service)	\$50.00
	Unauthorized operation of valves	
	(plus double the commodity rate for estimated volume)	
	Unauthorized use of connection pipes for fire protection	\$100.00*
	(plus double the commodity rate for estimated volume)	
	Unauthorized opening of by-pass valve/tampering	\$100.00*
	(plus double the commodity rate for estimated volume)	
	Unauthorized use of a hydrant/water	\$500.00
	Use of illegal connection on hydrant	
	(including loss of connection)	\$500.00
	Failure to return hydrant connection equipment	
	(plus number of weeks equipment used/missing)	
	Return of damaged hydrant connection equipment	
	Lost/non-returned hydrant wrench	
	Permit infractions/violations	
	(plus double with each subsequent infraction)	
	Returned check charge (verified with City Treasurer 8/23/10)	\$30.00
	Unauthorized service tap of watermain	
	(fine per tap plus tapping permit fee for each tap)	\$500.00

(3) Watermain Oversizing Rates, as reflected in Task #32 of the 2013 Water Rate Study:

8 inch to 12 inch	\$16.56 per lineal foot
12 inch to 16 inch	\$21.78 per lineal foot
8 inch to 16 inch	\$38.35 per lineal foot"

Section 5. That Section 2.41.2 of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.41.2 Circuit Breaker.

As agreed among the customer communities per the uniform water and sewer service agreement, the Individual Circuit Breaker (ICB) and City and Customer Community Circuit Breaker programs have been established in order to relieve hardship. The former program

^{*}Penalties shall double with each subsequent infraction.

serves to assist eligible water customers, and the latter program serves to normalize rates among customer communities to the extent that funds are available for such purpose. These programs shall be administered according to the terms of the uniform water and sewer service agreement. The amount allocated for this purpose shall not exceed:

Circuit Breaker

<u>Year</u> 2014

Allocation \$148,743"

Section 6. That Section 2.45 of Chapter 26 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.45 Effective Date.

The rates, charges, and fees set forth in Section 2.34(2), 2.35(1), 2.40, 2.41.1, 2.41.2, and 2.45 shall be effective on January 1, 2014."

Carried by a roll call vote:

Yeas: -6

Nays: -0

Com. White, supported by Com. Gutowski, moved that the ordinance take immediate effect pursuant to Section 9 of Title V of the City Charter.

Adopted:

Yeas: -6

Nays: -0

I hereby certify that the foregoing is a true transcript of the action of the City Commission of the City of Grand Rapids, Michigan, in public session held December 17, 2013.

Darlene O'Neal, Acting City Clerk

FINAL ADOPTION OF RATE ORDINANCE

83033 An Ordinance to amend Chapter 27 of Title II of the City Code amending Sewer Rates and Charges was presented to the City Commission on November 19, 2013 under File No. 82967 and a public hearing was held on December 3, 2013 under File No. 83021. The aforementioned ordinance shall be considered for adoption this date.

Com. White, supported by Com. Bliss, moved adoption of the following ordinance:

AN ORDINANCE TO AMEND SECTIONS 2.95(2), 2.96(1), 2.101, 2.102, 2.102.1, and 2.105 TO CHAPTER 27 OF TITLE II OF THE CODE OF THE CITY OF GRAND RAPIDS, AMENDING THE SEWER RATES AND CHARGES

ORDINANCE NO. 2013-87

THE PEOPLE OF THE CITY OF GRAND RAPIDS DO ORDAIN:

Section 1. That Section 2.95(2) of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

- "(2) The charge shall be known as the front foot rate and be determined by multiplying the rate per foot by the number of feet the property owner has fronting on the local collector sewer line from which he or she will receive service. The front foot rate shall be as follows:
 - (a) Domestic User: \$80.00;
 - (b) Commercial or Industrial User;
 - 1. The same as a domestic user if the connection is made to a local collector sewer line eight (8) inches or less in diameter.
 - 2. For a line larger than eight (8) inches in diameter: \$109.00.

This charge will be annually reviewed and may change to reflect the current average cost of installation of local collector sewer lines."

<u>Section 2</u>. That Section 2.96(1) of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"(1) When a property owner or user is requested or required to connect to the System and has not previously paid or been assessed a connection fee, the following connection fee schedule shall apply:

Integrated Sewer Connection Base Fee Schedule

Water Meter (or equivalent) Size (inches) Base Fee 3/4 or less \$2,873 \$4,798 1 1 ½ \$9.567 2 \$15,313 3 \$33.528 4 \$60,333 6 and over \$134,083"

Section 3. That Section 2.101 of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"2.101 Rates and Charges for Retail Users Within the City of Grand Rapids.

The following rates and charges for sewage disposal service shall apply for users within the City of Grand Rapids:

Commodity Rate

Domestic	\$3.21 per 100 cubic feet
Commercial	\$3.21 per 100 cubic feet
Industrial	\$3.21 per 100 cubic feet

Monthly Service Charge

Size of Meter	<u>Charge</u>
3/4 inch or less	\$14.40
1 inch	23.36
1 1/4 inches	34.88
1 1/2 inches	48.96
2 inches	84.80
3 inches	187.20
4 inches	330.56
6 inches or larger	740.16"

Section 4. That Section 2.102 of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"2.102 Surcharges and Permit Fees.

- (1) If the City Manager determines that a discharge will not cause pass through or interference as defined in this Chapter, Industrial or Commercial users whether they are located within a retail service area or a bulk service area shall be charged a surcharge if the concentration of their discharge exceeds a five-day BOD of two hundred fifty (250) mg/l, and/or TSS of two hundred fifty (250) mg/l, or any phosphorus of fifteen (15) mg/l. That charge shall be twenty-one and five-tenth cents (\$0.215) per pound of BOD and thirty-three and eight-tenth cents (\$0.338) per pound of TSS and two dollars and six and two-tenth cents (\$2.062) per pound of phosphorus in excess of the above limits. In addition, all industrial or commercial users shall be charged a surcharge for ammonia concentrations exceeding thirty-eight (38) mg/l. The charge shall be twenty nine and five-tenth cents (\$0.295) per pound of ammonia in excess of the above limit. Discharge concentrations of these substances and the resulting surcharge shall be based on at least three composite samples per quarter. This sampling shall be performed by either the City or the Industrial User as determined by the City Manager.
- (2) The fee for a Significant Industrial User Discharge Permit as provided for in Section 2.70 of this Chapter whether they are located within a retail service area or a bulk service area shall be four hundred dollars (\$400.00) per year and an analytical fee based upon Section 2.102(3).
- (3) The following schedule of charges shall apply to any analysis which may be required as a part of a Significant Industrial User Discharge Permit:

Metals	\$7.00 each
TSS	\$7.00 each
BOD	\$14.00 each
Total Phosphate	\$13.50 each
pH	\$5.00 each
EPA 624	\$60.00 each
EPA 625	\$115.00 each
BTEX/MTBE	\$35.00 each
Sulfide	\$12.00 each
Oil and Grease	\$25.00 each
Total Cyanide	\$15.00 each
Hexavalent Chromium	\$10.00 each
Fecal Coliform	\$25.00 each

Mercury	\$15.00 each
Ammonia	\$9.00 each
Labor	\$57.57 hour
Sampler	\$35.00 day
Vehicle	\$4.01 hour

(4) These charges will be reviewed annually and may change to reflect the current cost of providing these services."

Section 5. That Section 2.102.1 of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.102.1 Miscellaneous Charges

(1) Sewer Lateral Charges, as reflected in Task #29 of the 2013 Sewer Rate Study:

R.O.W. WIDTH	COST FOR 6-	INCH LATERAL
	2013	2014
50 ft.	\$2,150	\$2,400
60 ft.	\$2,550	\$2,850
66 ft.	\$2,800	\$3,100
80 ft.	\$3,350	\$3,650
100 ft.	\$4,100	\$4,500

(2) Sewer Oversizing Rates, as reflected in Task #32 of the 2013 Sewer Rate Study:

<u>Description</u>	Amount (per lineal foot)
8" to 10"	\$6.62
8" to 12"	\$12.14
8" to 15"	\$21.83
10" to 12"	\$5.52
10" to 15"	\$15.21
12" to 15"	\$9.69

(3) Footing Drain Disconnect Opt Out Charge, as reflected in Task #35 of the 2013 Sewer Rate Study, and as authorized by Section 2.115 of this Code:

\$73.40/customer/month"

Section 6. That Section 2.105 of Chapter 27 of Title II of the Code of the City of Grand Rapids be amended to read as follows:

"Sec. 2.105 Effective Date

The rates, charges, and fees set forth in Section 2.95(2), 2.96(1), 2.101, 2.102, 2.102.1, and 2.105 shall be effective on January 1, 2014."

Carried by a roll call vote:

Yeas: -6

Nays: -0

Com. White, supported by Com. Gutowski, moved that the ordinance take immediate effect pursuant to Section 9 of Title V of the City Charter.

Adopted:

Yeas: -6

Nays: -0

I hereby certify that the foregoing is a true transcript of the action of the City Commission of the City of Grand Rapids, Michigan, in public session held December 17, 2013.

Darlene O'Neal, Acting City Clerk



CITY OF GRAND RAPIDS AGENDA ACTION REQUEST

DATE: December 10, 2013

TO: Gregory A. Sundstrom, City Manager

COMMITTEE: Committee of the Whole

LIAISON: Greg Sundstrom, City Manager

FROM: Geri D. Eye, CPA, Utility Financial Officer

SUBJECT: 2014 CUSTOMER COMMUNITY WATER/SEWER RATES

FINAL APPROVAL OF RESOLUTION

The 2013 Preliminary Water/Sewer Rate Study recommended water and sewer rate adjustments as of January 1, 2014, for Grand Rapids and each customer community served by the water supply and sewage disposal systems. City Commission approval of rate adjustments for customer communities is required through resolution.

Utility Advisory Board (UAB) partners and other customer communities were notified of the recommended rate adjustments on November 14, 2013. The water and sanitary sewer service agreements provide the communities with a thirty-day comment period following the notification of rate adjustments. While no comments were received, both Wright and Grand Rapids townships each independently elected to contribute \$10,000 and \$3,200, respectively, to reduce sewer rates effective January 1, 2014.

In summary, Water Supply System revenue requirements reflect a decrease of \$1,735,395 or 4.30% less than revenues generated by existing rates and charges, and Sewage Disposal System revenue requirements reflect an increase of \$1,177,402 or 2.46% more than revenues generated by existing rates and charges.

The attached resolution approves the recommended water and sewer rates for the City's retail and wholesale communities for calendar year 2014. A summary of water and sewer revenue requirements changes and a rate schedule for each customer community is attached to the resolution.

Attachments

cc: Eric DeLong, Deputy City Manager
Scott Buhrer, Chief Financial Officer
Pamela Ritsema, Managing Director Enterprise Services
Joellen Thompson, Water System Manager
Michael Lunn, Environmental Services Manager
Wayne Jemberg, Water System Assistant Manager
Charles Schroeder, Environmental Services Assistant Manager

YOUR COMMITTEE OF THE WHOLE recommends adoption of the following resolution approving the attached adjusted water and sewer rates in accordance with the 2013 water/sewer rate review

DEPARTMENT OF LAW			
			-
			_
			_
			_
		COMMITTEE OF THE WHOLE	
1.	. supported	by Com	, mo
otion of the following r	resolution:		

years 1976 through 2012, and,

WHEREAS, the 2013 Water-Sewer Rate Review has been completed using the same general methodology as the 1976 through 2012 Water-Sewer Rate Studies, as adjusted where appropriate for the uniform water and sewer service agreements.

RESOLVED, that the attached water and sewer rates are approved and shall be effective January 1, 2014.

FURTHER, RESOLVED, that the Acting City Clerk is directed to notify the contractual water and sewer service customers in writing of the water and sewer rates, and the Mayor and Acting City Clerk are authorized to take any other action as may be required to evidence the new water and sewer rates.

DRAFTED BY: Geri D. Eye, CPA, Utility Financial Officer

CITY OF GRAND RAPIDS, MICHIGAN 2013 FINAL WATER/SEWER RATE STUDY SUMMARY OF REVENUE REQUIREMENT CHANGES FOR RATES EFFECTIVE JANUARY 1, 2014 December 10, 2013

		WATER	? (1)		SEWER (1)			
	AM	OUNT	PERCENT		AMOUNT	PERCENT		
GRAND RAPIDS	\$	(965,560)	-4.03%	\$	738,617	2.25%		
WALKER		(124,627)	-3.88%		108,859	2.36%		
KENTWOOD		(227,165)	-5.29%		98,572	2.74%		
CASCADE TWP		(118,885)	-3.88%		54,928	2.74%		
GRAND RAPIDS TWP (2)		(96,174)	-4.42%		60,072	2.60%		
TALLMADGE TWP		(5,055)	-3.88%		7,111	2.74%		
WRIGHT TWP		NA	NA		(3,231)	-1.31%		
EAST GRAND RAPIDS		(55,853)	-6.16%		67,271	11.11%		
ADA TWP		(92,563)	-7.32%		27,471	2.50%		
OTTAWA COUNTY		(49,514)	-3.54%		NA	NA		
GAINES TWP		NA	NA		4,532	3.12%		
SYSTEM	\$ (1	,735,395)	-4.30%	********	1,177,402	2.46%		

⁽¹⁾ Change in revenue requirements based on revenues currently generated from rates, customer base and volumes reported in the preliminary rate study (Includes consideration for relief from CCCCB).

DISCLOSE RELIEF PROVIDED BY CITY & CUSTOMER COMMUNITY CIRCUIT BREAKER (CCCCB)

	WATE	ER	SEWI	ER
	AMOUNT	PERCENT	AMOUNT	PERCENT
SYSTEM CHANGE- ABOVE	\$ (1,735,395)	-4.30%	\$ 1,177,402	2.46%
ADD: CCCCB RELIEF	168,143	0.42%	133,698	0.28%
SYSTEM CHANGE- WITHOUT RELIEF	\$ (1,567,252)	-3.88%	\$ 1,311,100	2.74%

⁽²⁾ Grand Rapids Twp contributed \$5,600 in 2012 Rate Study for 2013 sewer revenue requirements & rates.

APPROVAL OF CUSTOMER COMMUNITY RATES

*83073 Com. Gutowski, supported by Com. Bliss, moved adoption of the following resolution under the Consent Agenda:

WHEREAS, the Water-Sewer rate studies have been undertaken and completed for the years 1976 through 2012; and

WHEREAS, the 2013 Water-Sewer Rate Review has been completed using the same general methodology as the 1976 through 2012 Water-Sewer Rate Studies, as adjusted where appropriate for the uniform water and sewer service agreements; therefore

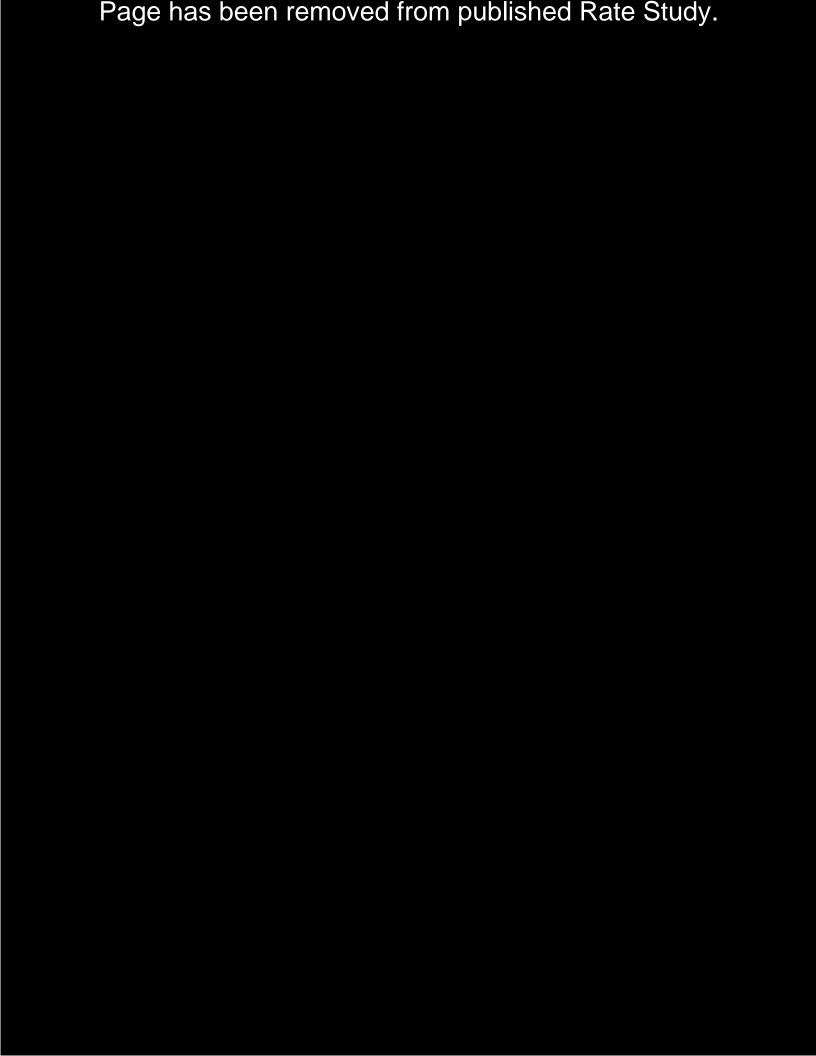
RESOLVED, that the attached water and sewer rates are approved and shall be effective January 1, 2014.

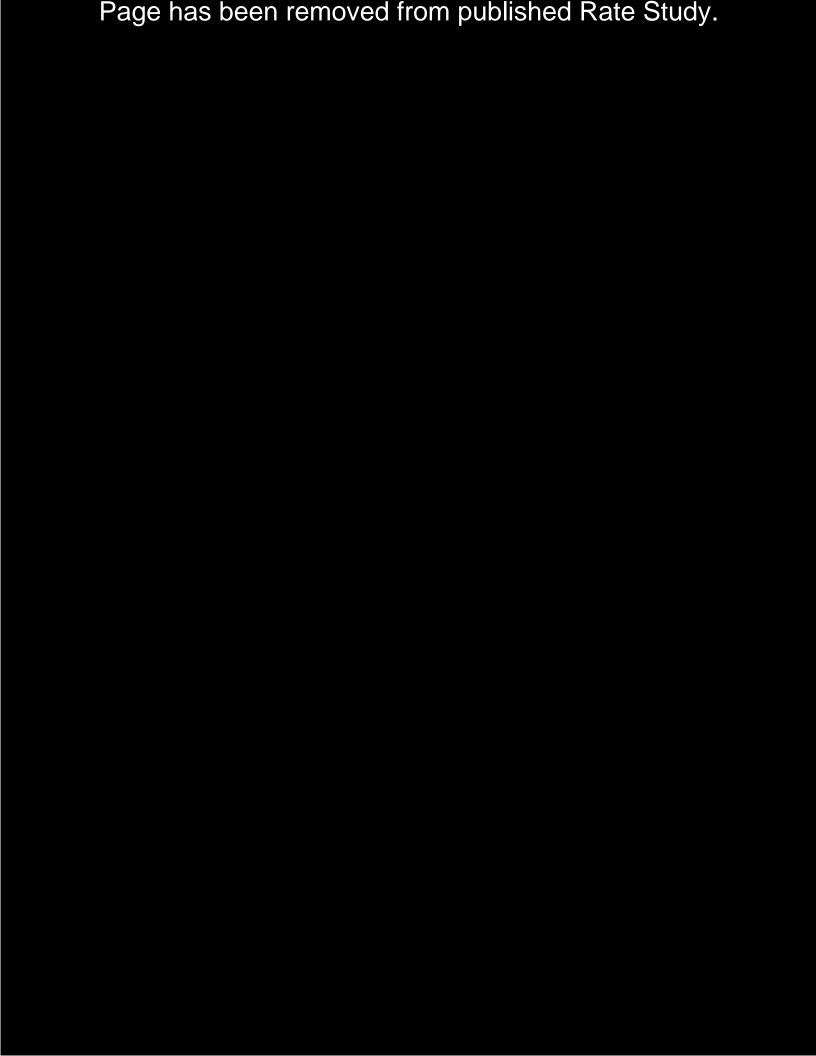
FURTHER RESOLVED, that the Acting City Clerk is directed to notify the contractual water and sewer service customers in writing of the water and sewer rates, and the Mayor and Acting City Clerk are authorized to take any other action as may be required to evidence the new water and sewer rates.

* CONSENT AGENDA APPROVAL

I hereby certify that the foregoing is a true transcript of the action of the City Commission of the City of Grand Rapids, Michigan, in public session held December 17, 2013.

Darlene O'Neal, Acting City Clerk





CITY CLERK



December 20, 2013

Ms. Sarah Bydalek, City Clerk City of Walker 4243 Remembrance Road NW Grand Rapids, MI 49504

Dear Sarah:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for the City of Walker are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely,

Darlene O'Neal Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager

CITY CLERK



December 20, 2013

Mr. Dan Kasunic, Clerk City of Kentwood 4900 Breton Avenue SE Kentwood, MI 49518-8848

Dear Dan:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for the City of Kentwood are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely,

Darlene O'Neal Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager

CITY CLERK



December 20, 2013

Mr. Ronald Goodyke, Clerk Cascade Charter Township 2865 Thornhills SE Grand Rapids, MI 49546-7192

Dear Mr. Goodyke:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for Cascade Charter Township are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely.

Darlene O'Neal
Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager Geri D. Eye, CPA, Utility Financial Officer

CITY CLERK



December 20, 2013

Mr. Ed Robinette, Clerk Grand Rapids Charter Township 1836 East Beltline NE Grand Rapids, MI 49525

Dear Ed:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for Grand Rapids Township are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely.

Darlene O'Neal Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager

CITY CLERK



December 20, 2013

Ms. Lenore Cook, Clerk Tallmadge Township Offices 0-1451 Leonard Street NW Grand Rapids, MI 49504

Dear Ms. Cook:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for Tallmadge Township are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely,

Darlene O'Neal
Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager





December 20, 2013

Ms. Linda Way, Township Clerk Wright Township 1565 Jackson P.O. Box 255 Marne, MI 49435

Dear Ms. Way:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for Wright Township are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely,

Darlene O'Neal Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager





December 20, 2013

Ms. Karen Brower, Clerk City of East Grand Rapids 750 Lakeside Drive SE East Grand Rapids, MI 49506

Dear Karen:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for the City of East Grand Rapids are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely,

Darlene O'Neal
Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager Geri D. Eye, CPA, Utility Financial Officer

> LAURI S. PARKS, CITY CLERK 300 MDNROE AVENUE, N.W., GRAND RAPIDS, MICHIGAN 49503 TELEPHONE (616) 456-3010 • FAX (616) 456-4607

CITY CLERK



December 20, 2013

Ms. Susan Burton, Clerk Ada Township 7330 Thornapple River Drive P.O. Box 370 Ada, MI 49301

Dear Susan:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for Ada Township are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely.

Darlene O'Neal Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager
Geri D. Eye, CPA, Utility Financial Officer

LAURI S. PARKS, CITY CLERK 300 MONROE AVENUE, N.W., GRAND RAPIOS, MICHIGAN 49503 TELEPHONE (616) 456-3010 • FAX (616) 456-4607





December 20, 2013

Mr. Ken Zarzecki Director of Public Utilities County of Ottawa Board of County Road Commissioners U.S. 31 at Rosy Mound Drive, P.O. Box 739 Grand Haven, MI 49417

Dear Mr. Zarzecki:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for Ottawa County are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely,

Darlene O'Neal Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager

CITY CLERK



December 20, 2013

Ms. Crystal Osterink, Clerk Gaines Charter Township 8555 Kalamazoo Ave., S.E. Caledonia, MI 49316-8270

Dear Crystal:

The "2013 Preliminary Water-Sewer Rate Study" recommended water and sewer rate adjustments for the City of Grand Rapids and each customer community contracting with the City of Grand Rapids for water and sewer services.

Customer communities were electronically notified of the recommended rate changes on November 14, 2013, followed by a thirty-day comment period. Additionally, rate review meetings were held on November 20 and 21, 2013, with customer communities.

On December 17, 2013, the Grand Rapids City Commission adopted a resolution to approve the new rates with an effective date of January 1, 2014. A certified copy of the resolution and the approved rate schedules for Gaines Charter Township are attached for your information.

If you need any further information, please call me at 456-3014.

Sincerely,

Darlene O'Neal
Acting City Clerk

DO/pas

Enclosures

cc: Tom Almonte, Assistant to the City Manager

CITY OF GRAND RAPIDS, MICHIGAN 2013 FINAL WATER/SEWER RATE STUDY WATER & SEWER RATES FOR GRAND RAPIDS & RETAIL CUSTOMER COMMUNITIES EFFECTIVE JANUARY 1, 2014

WATER RATES

	METER CODE	GRAND RAPIDS	<u>v</u>	<u>VALKER</u>	K	NTWOOD	<u>(</u>	CASCADE		R. RAPIDS OWNSHIP	LLMADGE OWNSHIP	WRIGHT TOWNSHIP
COMMODITY CHARGE (HC	F)	\$ 1.70	\$	1.57	\$	1.52	\$	2.08	\$	1.71	\$ 3.53	NA
			MOI	NIHLY SE	RVI	JE CHARG	EE	BY METER .	SIZE	:	 	
3/4" & Less	Α	\$ 9.50	\$	11.90	\$	14.02	\$	19.34	\$	14.74	\$ 6.77	NA
1"	В	\$ 14.66	\$	18.92	\$	22.69	\$	32.15	\$	23.97	\$ 9.80	NA
1-1/4"	С	\$ 21.29	\$	27.95	\$	33.84	\$	48.62	\$	35.84	\$ 13.70	NA
1-1/2"	D	\$ 29.39	\$	38.99	\$	47.47	\$	68.75	\$	50.35	\$ 18.47	NA
2"	E	\$ 50.02	\$	67.08	\$	82.16	\$	119.99	\$	87.28	\$ 30.60	NA
3"	F	\$ 108.95	\$	147.35	\$	181.27	\$	266.39	\$	192.79	\$ 65.27	NA
4"	G	\$ 191.46	\$	259.72	\$	320.03	\$	471.35	\$	340.51	\$ 113.80	NA
6" & Over	Н	\$ 427.19	\$	580.79	\$	716.47	\$	1,056.95	\$	762.55	\$ 252.47	NA

SEWER RATES

COMMODITY	METER CODE	GRAND RAPIDS		<u>WALKER</u>	KI	ENTWOOD	٥	CASCADE		R. RAPIDS OWNSHIP	ALLMADGE OWNSHIP	RIGHT WNSHIP
CHARGE (HC	:F)	\$ 3.21	\$	2.68	\$	2.30	\$	2.57	\$	2.34	\$ 10.53	NA
REU Charge (Mo	onthly) *	NA		NA		NA		NA		NA	NA	\$ 61.07
		 	MC	NTHLY SE	RVI	CE CHARG	EE	BY METER	SIZE	<u> </u>	 	
3/4" & Less	Α	\$ 14.40	\$	29.74	\$	6.72	\$	31.03	\$	27.28	\$ 33.20	NA
1"	В	\$ 23.36	\$	50.63	\$	9.71	\$	52.93	\$	46.26	\$ 56.78	NA
1-1/4"	С	\$ 34.88	\$	77.49	\$	13.55	\$	81.08	\$	70.66	\$ 87.10	NA
1-1/2"	D	\$ 48.96	\$	110.32	\$	18.24	\$	115.48	\$	100.48	\$ 124.16	NA
2"	Ε	\$ 84.80	\$	193.88	\$	30.19	\$	203.06	\$	176.39	\$ 218.49	NA
3"	F	\$ 187.20	\$	432.64	\$	64.32	\$	453.28	\$	393.28	\$ 488.00	NA
4"	G	\$ 330.56	\$	766.90	\$	112.11	\$	803.59	\$	696.92	\$ 865.31	NA
6" & Over	Н	\$ 740.16	\$	1,721.92	\$	248.64	\$	1,804.48	\$	1,564.48	\$ 1,943.36	 NA

^{*} REU - Residential Equivalent Unit (Wright Township Only)

FIRE PROTECTION RATES- ALL GOVERNMENTAL UNITS

6"	Н	\$ 16.00	10"	J	\$ 44.48	
8"	1	\$ 28.40	12"	K	\$ 64.00	

NOTE: Monthly defined as 1/12th of 365 days.

CITY OF GRAND RAPIDS, MICHIGAN 2013 FINAL WATER/SEWER RATE STUDY WATER & SEWER RATES FOR WHOLESALE CUSTOMER COMMUNITIES EFFECTIVE JANUARY 1, 2014

	2014
EAST GRAND RAPIDS	
WATER - SERVICE (MONTHLY)	\$ 14,091.00
- COMMODITY (100 CF)	1.12
SEWER - SERVICE (MONTHLY)	1,540.00
- COMMODITY (MG)	1,558.00
ADA TWP	
WATER - SERVICE	\$ 29,726.00
- COMMODITY	1.25
SEWER - SERVICE	42,700.00
- COMMODITY	1,975.00
OTTAWA COUNTY	
WATER - SERVICE	\$ -
- COMMODITY	1.22
CAINES TIME	
GAINES TWP	A 4 000 00
SEWER - SERVICE	\$ 1,333.00
- COMMODITY	1,387.00

NOTE: Monthly defined as 1/12th of 365 days.

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